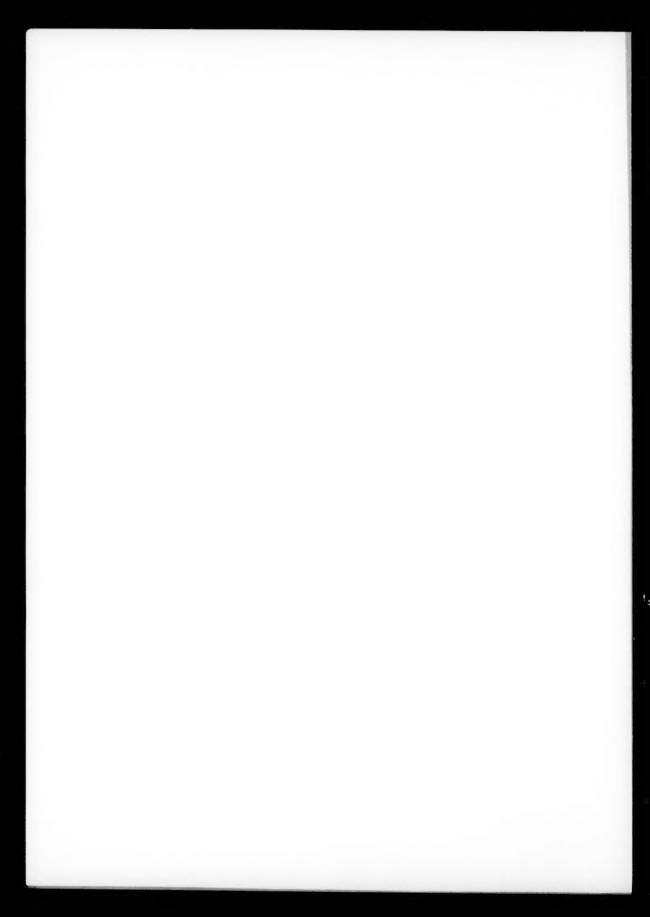


Analytica Chimica Acta 425 (2000) 1-181

ANALYTICA CHIMICA ACTA

www.elsevier.com/locate/aca

Cumulative Author Index Analytica Chimica Acta Volumes 302-400, 1997-2000



Aaron, J.J., see Coly, A., 360 (1998) 129

Aaron, J.J., see Coly, A., 392 (1999) 255

Aaron, J.J., see Pérez, R., 369 (1998) 197

Aaron, J.J., Valenzuela, M.I.A., Pena, M.S., Salinas, F. and Mahedero, M.C., Quantitative analysis of sulfadiazine using photochemically induced fluorescence detection in bulk solution and in a flow injection system, 314 (1995) 45

Ab Ghani, S., see Zahir, M.H., 354 (1997) 351

Abad, A. and Montoya, A., Application of a monoclonal antibodybased ELISA to the determination of carbaryl in apple and grape juices, 311 (1995) 365

Abad, A., Moreno, M.J. and Montoya, A., A monoclonal immunoassay for carbofuran and its application to the analysis of fruit juices, 347 (1997) 103

Abad, A., see González-Martinez, M.A., 347 (1997) 199

Abad, C., see Salom, D., 352 (1997) 309

Abad, J.M., Pariente, F., Hernández, L. and Lorenzo, E., A quartz crystal microbalance assay for detection of antibodies against the recombinant African swine fever virus attachment protein p12 in swine serum, 368 (1998) 183

Abadía, J., see Abián, J., 302 (1995) 215

Abalos, M., see Yong, C., 314 (1995) 183

Abass, A.K., Hart, J.P., Cowell, D.C. and Chappell, A., Development of an amperometric assay for NH<sub>4</sub><sup>+</sup> based on a chemically modified screen-printed NADH sensor, 373 (1998) 1

Abass, A.K., see Hart, J.P., 342 (1997) 199

Abate, G., see Masini, J.C., 364 (1998) 223

Abbas, A.A. and Shelly, D.C., Simultaneous absorbance, fluorescence and refractive index (SAFRIN) detection for Micro LC, 397 (1999) 191

Abbas, A.B., see Hassan, S.S.M., 321 (1996) 47

Abbas, M.N., Moustafa, G.A., Mitrovics, J. and Gopel, W., Multi-component gas analysis of a mixture of chloroform, octane and toluene using a piezoelectric quartz crystal sensor array, 393 (1999) 67

Abbaspour, A. and Tavakol, F., Lead-selective electrode by using benzyl disulphide as ionophore, 378 (1999) 145

Abd El-Hady, D., see Abo El-Maali, N., 370 (1998) 239

Abd El-Fatah, S.A., see Hassan, S.S., 363 (1998) 81

Abdel-Aziz, R.M., see Hassan, S.S.M., 321 (1996) 47

Abdelghani, A., Chovelon, J.M., Jaffrezic-Renault, N., Veilla, C. and Gagnaire, H., Chemical vapour sensing by surface plasmon resonance optical fibre sensor coated with fluoropolymer, 337 (1997) 225

Abdel-Hamid, I., Atanasov, P. and Wilkins, E., Development of a needle-type biosensor for intravascular glucose monitoring, 313 (1995) 45

Abdel-Hamid, I., Ivnitski, D., Atanasov, P. and Wilkins, E., Highly sensitive flow-injection immunoassay system for rapid detection of bacteria, 399 (1999) 99

Abdel-Rahman, R.M., see Zaki, M.T.M., 307 (1995) 127

Abdelrehim, I.M., see Land, D.P., 307 (1995) 321

Abdennabi, A.M.S., Koken, M.E. and Khaled, M.M., Application of differential electrolytic potentiometry for detection in flow injection analysis, 360 (1998) 195 Abdollahi, H., see Safavi, A., 367 (1998) 167

Abdollahi, S., Preconcentration and determination of Pb<sup>2+</sup> at an AlPO<sub>4</sub> containing carbon paste electrode, 304 (1995) 381

Abdülkadir Akay, M., Dürüst, N., Dürüst, Y.v. and Kiliç, E., Protonation constants of some N-substituted thiophene-2-carboxamidoximes, 392 (1999) 343

Abe, H., see Kugimiya, A., 365 (1998) 75

Abe, K., see Ohkuma, H., 395 (1999) 265

Abe, S., Mochizuki, J. and Sone, T., Liquid-liquid extraction of iron(III) and gallium(III) with macrocyclic Schiff bases containing bisphenol A subunits, 319 (1996) 387

Abe, S., see Endo, M., 364 (1998) 13

Abe, S., see Ikeda, K., 363 (1998) 165

Abián, J., Susín, S., Abadía, J. and Gelpí, E., Thermospray and electrospray mass spectrometry of flavocoenzymes. Analysis of riboflavin sulphates from sugar beet, 302 (1995) 215

Abo El-Maali, N. and Abd El-Hady, D., Square-wave adsorptive stripping voltammetry at glassy carbon electrode for selective determination of manganese. Application to some industrial samples, 370 (1998) 239

Abollino, O., Aceto, M., Bruzzoniti, M.C., Mentasti, E. and Sarzanini, C., Determination of metals in highly saline matrices by solid-phase extraction and slurry-sampling inductively coupled plasma-atomic emission spectrometry, 375 (1998) 293

Abollino, O., Aceto, M., Bruzzoniti, M.C., Mentasti, E. and Sarzanini, C., Speciation of copper and manganese in milk by solid-phase extraction/inductively coupled plasma-atomic emission spectrometry, 375 (1998) 299

Abollino, O., Aceto, M., Sacchero, G., Sarzanini, C. and Mentasti, E., Determination of copper, cadmium, iron, manganese, nickel and zinc in Antarctic sea water. Comparison of electrochemical and spectroscopic procedures, 305 (1995) 200

Abollino, O., Braglia, M., Contardi, C., Dai, G., Mentasti, E., Mosso, S. and Sarzanini, C., Optical fibres: atomic spectroscopic methods for the determination of fluoride glasses composition, 383 (1999) 243

Abonyi, J., see Barkó, G., 398 (1999) 219

Aboul-Enein, H.Y. and Serignese, V., Liquid chromatographic determination of taxol and related derivatives using a new polyfluorinated reversed-phase column, 319 (1996) 187

Aboul-Enein, H.Y., see Bunaciu, A.A., 311 (1995) 193

Aboul-Enein, H.Y., see Overbeke, A.V., 346 (1997) 183

Abraham, M.H., see Oumada, F.Z., 382 (1999) 301

Abrahamsson, K., see Ekdahl, A., 357 (1997) 197 Abrams, M.J., see Weiss, P.S., 307 (1995) 355

Abrigo, C., see Marengo, E., 317 (1995) 53

Abrigo, C., see Marengo, E., 321 (1996) 225

Abruña, H.D., see Lorenzo, E., 309 (1995) 79

Abruña, H.D., see Tobalina, F., 358 (1998) 15

Abuknesha, R., see Brecht, A., 362 (1998) 69

Abuknesha, R., see Mouvet, C., 311 (1995) 331

Abuknesha, R., see Mouvet, C., 338 (1997) 109

Aburatani, M., see Kugimiya, A., 365 (1998) 75 Acar, O., Kılıç, Z. and Rehber Türker, A., Determination of bismuth,

Acar, O., Kilic, Z. and Renber Turker, A., Determination of bismuth, indium and lead in geological and sea-water samples by electrothermal atomic absorption spectrometry with nickel-containing chemical modifiers, 382 (1999) 329 Acedo Valenzuela, M.I., see Espinosa-Mansilla, A., 376 (1998) 365

Acedo Valenzuela, M.I., see Galeano Díaz, T., 384 (1999) 185

Aceto, M., see Abollino, O., 305 (1995) 200

Aceto, M., see Abollino, O., 375 (1998) 293

Aceto, M., see Abollino, O., 375 (1998) 299

Achatz, S., see Glaus, M.A., 398 (1999) 111

Achatz, S., see Knopp, D., 399 (1999) 115 Ache, H.J., see Plaschke, M., 304 (1995) 107

Ache, H.J., see Steinle, E., 353 (1997) 207

Achermann, N., see Anticó, E., 388 (1999) 327

Achterberg, E.P. and Braungardt, C., Stripping voltammetry for the determination of trace metal speciation and in-situ measurements of trace metal distributions in marine waters, 400 (1999) 381

Achterberg, E.P., see Bowie, A.R., 361 (1998) 189

Achterberg, E.P., see Braungardt, C., 377 (1998) 205

Achterberg, E.P., see Whitworth, D.J., 371 (1998) 235

Achterberg, E.P., see Whitworth, D.J., 377 (1998) 217

Achterberg, E.P., see Whitworth, D.-J., 392 (1999) 3

Acree, W.E., see Pandey, S., 324 (1996) 175

Adachi, H., see Matsumoto, A., 390 (1999) 193

Adami, G., see Barbieri, P., 398 (1999) 227

Adami, G., see Favretto, L., 344 (1997) 251

Adami, M., see Piras, L., 335 (1996) 127

Adams, F. and Mathieu, E., Towards a closer integration of Ph.D. training to industrial and societal needs, 393 (1999) 147

Adams, F., see Ivanova, E., 354 (1997) 7

Adams, F., see Ma, R., 309 (1995) 395

Adams, F., see Ma, R., 317 (1995) 215

Adams, F.C., see Ceulemans, M., 317 (1995) 161

Adams, F.C., see Gerbersmann, C., 316 (1995) 93

Adams, F.C., see Gerbersmann, C., 350 (1997) 273

Adams, F.C., see Jiang, G.B., 337 (1997) 83

Adams, F.C., see Szpunar, J., 332 (1996) 225

Adams, H.M., see Shultz, T.J., 316 (1995) 337

Adams, J.W., see Buttner, W.J., 341 (1997) 63

Adams, M.A., see Chen, Z., 363 (1998) 191 Adams, M.A., see Chen, Z., 386 (1999) 249

Adelantado, J.V.G., see Carbó, M.T.D., 330 (1996) 207

Adeloju, S.B. and Young, T.M., Anodic stripping potentiometric determination of antimony in environmental materials, 302 (1995) 225

Adeloju, S.B., Barisci, J.N. and Wallace, G.G., Electroimmobilisation of sulphite oxidase into a polypyrrole film and its utilisation for flow amperometric detection of sulphite, 332 (1996) 145

Adeloju, S.B., Jagner, D. and Renman, L., Cathodic stripping potentiometric determination of selenium in biological and environmental materials on a combined electrode with a rotating sample platform, 338 (1997) 199

Adeloju, S.B., Shaw, S.J. and Wallace, G.G., Polypyrrole-based amperometric flow injection biosensor for urea, 323 (1996) 107

Adeloju, S.B., Shaw, S.J. and Wallace, G.G., Pulsed-amperometric detection of urea in blood samples on a conducting polypyrroleurease biosensor, 341 (1997) 155

Adeloju, S.B., Young, T.M., Jagner, D. and Batley, G.E., Constant current cathodic stripping potentiometric determination of arsenic on a mercury film electrode in the presence of copper ions, 381 (1999) 207 Adeyoju, O., Iwuoha, E.I. and Smyth, M.R., Reactivities of amperometric organic phase peroxidase-modified electrodes in the presence and absence of thiourea and ethylenethiourea as inhibitors, 305 (1995) 57

Adlercreutz, P., see Hedenfalk, M., 341 (1997) 269

Agarwal, R. and Gupta, M.N., Evaluation of gluteraldehyde-modified chitosan as a matrix for hydrophobic interaction chromatography, 313 (1995) 253

Agater, I.B. and Jewsbury, R.A., Direct chemiluminescence determination of ascorbic acid using flow injection analysis, 356 (1997) 289

Agatonovic-Kustrin, S., Zecevic, M., Zivanovic, L. and Tucker, I.G., Application of neural networks for response surface modeling in HPLC optimization, 364 (1998) 265

Aggarwal, I.D., see Ewing, K.J., 340 (1997) 227

Agnelli, H., see Giacomelli, L., 370 (1998) 79

Agraz, R., see Ortiz Viana, M. Mar, 382 (1999) 179

Aguí, L., López-Guzmán, J.E., González-Cortés, A., Yáñez-Sedeño, P. and Pingarrón, J.M., Analytical performance of cylindrical carbon fiber microelectrodes in low-permitivity organic solvents: determination of vanillin in ethyl acetate, 385 (1999)

Agudo, M., Ríos, A. and Valcárcel, M., Automatic implementation of the method of standard additions in unsegmented flow systems, 308 (1995) 77

Agüera, A., see Fernandez-Alba, A.R., 311 (1995) 371

Agüi, M.L., Calavia, E., Yáñez-Sedeño, P. and Pingarrón, J.M., Determination of the antioxidant Irganox 1076 by anodic voltammetry and flow injection with pulsed amperometric detection at a glassy carbon electrode, 305 (1995) 324

Aguilar, C., Ferrer, I., Borrull, F., Marcé, R.M. and Barceló, D., Monitoring of pesticides in river water based on samples previously stored in polymeric cartridges followed by on-line solidphase extraction-liquid chromatography—diode array detection and confirmation by atmospheric pressure chemical ionization mass spectrometry, 386 (1999) 237

Aguilar, C., see Cosano, J.S., 308 (1995) 187

Aguilar, J.C. and de Gyves, J., Determination of germanium(IV) in sulphide ores by differential pulse polarography in pyrogallolsulfuric acid media, 306 (1995) 243

Aguilar, M., see El Aamrani, F.Z., 329 (1996) 247

Aguilar-Caballos, M.P., Gómez-Hens, A. and Pérez-Bendito, D., Simultaneous kinetic determination of butylated hydroxyanisole and propyl gallate by coupling stopped-flow mixing technique and diode-array detection, 354 (1997) 173

Aguilar-Caballos, M.P., Gómez-Hens, A. and Pérez-Bendito, D., Pesticide determination by stopped-flow fluoroimmunoassay using Cresyl Violet as label, 381 (1999) 147

Agyei, N.M., Gahm, K.H. and Stalcup, A.M., Chiral separations using heparin and dextran sulfate in capillary zone electrophoresis, 307 (1995) 185

Ahlgrén, M., see Peräniemi, S., 302 (1995) 89

Ahlgrén, M., see Peräniemi, S., 315 (1995) 365

Ahlgrén, M., see Turunen, M., 311 (1995) 85

Ahmad, R., see Fogg, A.G., 362 (1998) 235

Ahmed, M.E., see Ibrahim, M.S., 328 (1996) 47

Ahmed, S., see Rigby, G.P., 385 (1999) 23

Ahsan, S., Kaneco, S., Ohta, K., Mizuno, T., Suzuki, T., Miyada, M. and Taniguchi, Y., Electrothermal atomic absorption spectrometric determination of lead in calcium drug samples by direct atomization technique, 362 (1998) 279

Aifeng, Y., see Dezhong, L., 320 (1996) 245

Aihara, T., see Igarashi, S., 323 (1996) 63

Aihui, L., see Zhiliang, J., 346 (1997) 249

Aijun, T., see Longdi, L., 341 (1997) 241

Ai-Jun, T., Ying-Guang, W. and Long-Di, L., Solid-substrate and micellar-stabilized room temperature phosphorescence of two anilinonaphthalenesulfonates, 322 (1996) 91

Aimin, T. and Cailin, X., Direct determination of caustic hydroxide by a micro-titration method with dual-wavelength photometric end-point detection, 341 (1997) 297

Aimoto, M., see Kondo, H., 394 (1999) 293

Aisheng, F., see Hailin, W., 342 (1997) 159

Aizawa, K. and Gantt, E., Rapid method for assay of quantitative binding of soluble proteins and photosynthetic membrane proteins on poly(vinylidene difluoride) membranes, 365 (1998) 109

Aizawa, K., see Awazu, K., 365 (1998) 193

Aizawa, M., see Kim, E.J., 394 (1999) 225

Aizawa, M., see Másson, M., 304 (1995) 353

Aizawa, M., see Zhang, C., 374 (1998) 105

Aizawa, M., see Zhang, C., 394 (1999) 165

Akama, Y. and Kanno, H., Liquid chromatographic separation of polycyclic aromatic hydrocarbons with cerium(IV) oxide as packing material, 309 (1995) 153

Akama, Y., see Tong, A., 369 (1998) 11

Akamatsu, T., see Yokoyama, T., 364 (1998) 75

Akapo, S.O., Evaluation of transition metal complexes of aminopropylsilyl-dithiooxamide bonded phases for gas chromatography, 341 (1997) 35

Akatsuka, K., see Sugawara, K., 353 (1997) 301

Åke Jönsson, J., see Björklund, E., 368 (1998) 117

Akhnoukh, R., see Jürgens, H., 315 (1995) 153

Akhtar, P., Devereaux, H.A., Downard, A.J., O'Sullivan, B. and Powell, K.J., Portable fractionation device and screen-printed electrode for measurement of reactive aluminium in environmental samples, 381 (1999) 49

Akhtar, P., Too, C.O. and Wallace, G.G., Detection of amino acids at conducting electroactive polymer modified electrodes using flow injection analysis. Part I. Use of macroelectrodes, 339 (1997) 201

Akhtar, P., Too, C.O. and Wallace, G.G., Detection of amino acids at conducting electroactive polymer modified electrodes using flow injection analysis. Part II. Use of microelectrodes, 339 (1997)

Akhtar, P., Too, C.O. and Wallace, G.G., Detection of haloacetic acids at conductive electroactive polymer-modified microelectrodes, 341 (1997) 141

Akihama, S., see Katayama, M., 303 (1995) 333

Akinbo, O.T. and Carnahan, J.W., Membrane desolvation for the analysis of organic solutions and liquid chromatographic samples with low power helium microwave induced plasma atomic emission detection, 390 (1999) 217

Akira, K. and Shinohara, Y., Direct determination of diastereomeric <sup>13</sup>C-labeled ketoprofen glucuronides in human urine by nuclear magnetic resonance spectroscopy, 334 (1996) 67

Akita, S., see Fukaya, M., 306 (1995) 231

Akiyama, M., see Kobayashi, M., 361 (1998) 285

Akiyama, M., see Kobayashi, M., 365 (1998) 199

Akiyama, S., see Nakashima, K., 303 (1995) 103

Akiyama, S., see Sohrin, Y., 363 (1998) 11 Akizawa, T., see Darwish, I., 365 (1998) 121

Akizawa, T., see Hirose, K., 365 (1998) 129

Akizawa, T., see Hirose, K., 365 (1998) 137

Akutsu, S., see Kobayashi, M., 361 (1998) 285 Alaee, M., see Zaruk, D., 376 (1998) 113

Alaejos, M.S., see Rodriguez, E.M.R., 334 (1996) 161

Alajarín, M., see Badr, I.H., 388 (1999) 63

Ala-Kleme, T., Haapakka, K. and Latva, M., Near-infrared electrogenerated chemiluminescence of ytterbium(III) chelates in aqueous electrolytes, 395 (1999) 205

Ala-Kleme, T., see Kulmala, A., 382 (1999) 233

Ala-Kleme, T., see Kulmala, S., 340 (1997) 245

Ala-Kleme, T., see Kulmala, S., 355 (1997) 1

Ala-Kleme, T., see Kulmala, S., 367 (1998) 17

Ala-Kleme, T., see Kulmala, S., 386 (1999) 1

Ala-Kleme, T., see Kulmala, S., 398 (1999) 41

Alañón Molina, A., see Murillo Pulgarín, J.A., 370 (1998) 9

Alañón Molina, A., see Murillo Pulgarín, J.A., 382 (1999) 77

Alarfaj, N.A., see Aly, F.A., 358 (1998) 255

Alatorre Ordaz, A., see Manriquez, J., 378 (1999) 159

Albajez, R., see de Marcos, S., 343 (1997) 117

Albero, M.I., see Sánchez-Pedreño, C., 308 (1995) 457

Alberti, G., see Pesavento, M., 367 (1998) 215

Alberti, G., see Soldi, T., 323 (1996) 27

Albertús, F., Cortés, I., Danielsson, L.G. and Ingman, F., Selective determination of protolytes by flow injection analysis. A guide for the rational selection of reagent composition, 344 (1997) 271

Albertús, F., Llerena, A., Alpízar, J., Cerdá, V., Luque, M., Ríos, A. and Valcárcel, M., A PVC-graphite composite electrode for electroanalytical use. Preparation and some applications, 355 (1997) 23

Albertús, F., see Cortés, I., 328 (1996) 61

Albin, V., see Bedioui, F., 341 (1997) 177

Albrecht, J., see Möller, D., 306 (1995) 1

Alcaina-Miranda, M.I., see Morais, S., 353 (1997) 245

Alcántara, D., see García Sánchez, F., 395 (1999) 133

Alciaturi, C.E., Escobar, M.E. and De La Cruz, C., A numerical procedure for curve fitting of noisy infrared spectra, 376 (1998)

Alciaturi, C.E., Montero, T., De La Cruz, C. and Escobar, M.E., The prediction of coal properties using compressed infrared data from osculating polynomials, 340 (1997) 233

Alder, J.F. and Baker, J.G., Quantitative millimetre wavelength spectrometry. . Part IV. Response curves for oxygen in carbon dioxide and nitrogen at 60 GHz, 367 (1998) 245

Alder, J.F., see Baker, J.G., 319 (1996) 277

Alder, J.F., see Benmakroha, F., 302 (1995) 255

Alder, J.F., see Benmakroha, F., 317 (1995) 281

Alder, J.F., see Benmakroha, F., 343 (1997) 215

Alder, J.F., see Hunt, A.L., 387 (1999) 207

Alder, J.F., see Rezgui, N.D., 311 (1995) 99

Alder, J.F., see Rezgui, N.D., 312 (1995) 115

Aldhaheri, S.M., see El-Shahawi, M.S., 320 (1996) 277

Al-Dirbashi, O., Kuroda, N. and Nakashima, K., Characterization of the fluorescence properties of 4-fluoro-7-nitrobenzo-2-oxa-1,3diazole derivatives of some primary and secondary sympathomimetic amines, 365 (1998) 169

Aldridge, A.A., see Chiarelli, M. Paul, 368 (1998) 1

Aldridge, P.K., see JungHwan, C., 348 (1997) 303

Aldstadt, J.H., Kuo, J.M., Smith, L.L. and Erickson, M.D., Determination of uranium by flow injection inductively coupled plasma mass spectrometry, 319 (1996) 135

Aldstadt, J.H., Olson, D.C. and Martin, A.F., Determination of volatile arsenicals in ambient air by flow injection, 338 (1997) 215

Alegret, S., see Jurkiewicz, M., 327 (1996) 243

Alegret, S., see Jurkiewicz, M., 370 (1998) 47

Alegret, S., see M.C.S. Magalhães, J., 355 (1997) 241

Alegret, S., see Martorell, D., 337 (1997) 305

Alegret, S., see Merkoci, A., 391 (1999) 65

Alegret, S., see Morales, A., 332 (1996) 131

Alegret, S., see Santandreu, M., 396 (1999) 181

Alegret, S., see Saurina, J., 371 (1998) 49

Alemu, H. and Chandravanshi, B.S., Differential pulse anodic stripping voltammetric determination of copper(II) with N-phenylcinnamohydroxamic acid modified carbon paste electrodes, 368 (1998) 165

Alerm, L., see Bartroli, J., 308 (1995) 102

Alerm, L., see Cretin, M., 350 (1997) 7

Alexander, P.W., see Chen, Z., 338 (1997) 41

Alexander, P.W., see Di Benedetto, L.T., 321 (1996) 61

Alexander, P.W., see Glód, B.K., 306 (1995) 267

Alexander, P.W., see Oungpipat, W., 309 (1995) 35

Alexander, P.W., see Trojanowicz, M., 366 (1998) 23

Alexander, P.W., see Trojanowicz, M., 370 (1998) 267

Alexander, P.W., see Yang, X., 372 (1998) 387

Alexander, P.W., see Zuliang, C., 332 (1996) 187

Alexandre, I., see Moris, P., 302 (1995) 53

Alexandrova, A. and Arpadjan, S., Column solid phase extraction as preconcentration method for trace element determination in oxalic acid by atomic absorption spectrometry and inductively coupled plasma atomic emission spectrometry, 307 (1995) 71

Alfassi, Z.B., Probst, T.U. and Rietz, B., Platinum determination by instrumental neutron activation analysis with special reference to the spectral interference of Sc-47 on the platinum indicator nuclide Au-199, 360 (1998) 243

Alfonso, E.F.S., see Biosca, Y.M., 307 (1995) 145

Alguacil, F., see Coedo, A.G., 315 (1995) 331

Alguacil, F., see Coedo, A.G., 340 (1997) 31

Alguacil, F.J., see Coedo, A.G., 389 (1999) 247

Ali Taher, M., Mostafavi Dehzoei, A., Krishan Puri, B. and Puri, S., Derivative UV-visible spectrophotometric determination of nickel in alloys and biological samples after preconcentration with the ion pair of 2-nitroso-1-naphthol-4-sulfonic acid and tetradecyldimethylbenzylammonium chloride onto microcrystalline naphthalene or by a column method, 367 (1998) 55

Ali, A., Shen, H. and Yin, X., Simultaneous determination of trace amounts of nickel, copper and mercury by liquid chromatography coupled with flow-injection on-line derivatization and preconcentration, 369 (1998) 215

Ali, A., Yin, X., Shen, H., Ye, Y. and Gu, X., 1,10-Phenanthroline as a complexing agent for on-line sorbent extraction/preconcentration for flow injection-flame atomic absorption spectrometry, 392 (1999) 283

Alimonti, A., Petrucci, F., Fioravanti, S., Laurenti, F. and Caroli, S., Assessment of the content of selected trace elements in serum of term and pre-term newborns by inductively coupled plasma mass spectrometry, 342 (1997) 75

Alimonti, A., Petrucci, F., Santucci, B., Cristaudo, A. and Caroli, S., Determination of chromium and nickel in human blood by means of inductively coupled plasma mass spectrometry, 306 (1995) 35

Alimonti, A., see Krachler, M., 363 (1998) 1

Alimonti, A., see Posta, J., 325 (1996) 185

Alizadeh, N., see Yamini, Y., 355 (1997) 69

Al-Kindy, S., see Prados, P., 344 (1997) 227

Alkorta, F., see Amárita, F., 349 (1997) 153

Allard, B., see Reuther, R., 394 (1999) 259

Allegrini, I., see De Santis, F., 346 (1997) 127

Allen, H.E., see Yujun, Y., 341 (1997) 73

Allen, J., see Rezgui, N.D., 311 (1995) 99

Aller, A.J., Lumbreras, J.M., Robles, L.C. and Fernández, G.M., Stability of bacterium-mercury complexes and speciation of soluble inorganic mercury species, 330 (1996) 89

Alli, A., see Yong, C., 334 (1996) 251

Allmaier, G., see Linnemayr, K., 372 (1998) 187

Almeida Mota, A.M., see Ezequiel Rollemberg, M.C., 384 (1999)

Almeida Mota, A.M., see Ezequiel Rollemberg, M.C., 392 (1999) 349

Almeida, A.A., see Soares, H.M., 394 (1999) 325

Almeida, C.M.R. and Vasconcelos, M.T.S.D., Determination of lead isotope ratios in port wine by inductively coupled plasma mass spectrometry after pre-treatment by UV-irradiation, 396 (1999) 45

Almeida, C. Marisa R., see Vasconcelos, M. Teresa S.D., 369 (1998) 115

Almeida, L.E., Castilho, M., Mazo, L.H. and Tabak, M., Voltammetric and spectroscopic studies of the oxidation of the antioxidant drug dipyridamole in acetonitrile and ethanol, 375 (1998) 223

Almeida, P.J., Rodrigues, J.A., Barros, A.A. and Fogg, A.G., Voltammetric studies of anthraquinone dyes adsorbed at a hanging mercury drop electrode using fast pulse techniques, 385 (1999) 287

Almeida, P.J., see Barros, A.A., 385 (1999) 315

Almendral, M.J., Porras, M.J., Alonso, A., Baez, M.D. and Alonso, C., Spectrophotometric determination of ℓ-asparagine by flowinjection analysis using ℓ-asparaginase immobilized on an epoxy resin, 308 (1995) 170

Almendral, M.J., see Alonso, A., 308 (1995) 164

Almog, J., Hirshfeld, A., Glattstein, B., Sterling, J. and Goren, Z., Chromogenic reagents for iron(II): studies in the 1,2,4-triazine series, 322 (1996) 203

Almog, J., Hirshfeld, A., Glattstein, B., Sterling, J. and Goren, Z., Erratum to "Chromogenic reagents for iron(II): studies in the 1,2,4-triazine series" [Anal. Chim. Acta, 322 (1996) 203], 334 (1996) 223

Almuaibed, A.M. and Townshend, A., Flow injection amperometric and chemiluminescence individual and simultaneous determination of lysine and glucose with immobilized lysine oxidase and glucose oxidase, 338 (1997) 149

Almuaibed, A.M. and Townshend, A., Flow injection chemiluminescence determination of ornithine and sequential determination of ornithine and lysine by using immobilized lysine oxidase, 388 (1999) 339.

Alonso, A., Almendral, M.J., Báez, M.D., Porras, M.J. and Alonso, C., Enzyme immobilization on an epoxy matrix. Determination of ℓ-arginine by flow-injection techniques, 308 (1995) 164

Alonso, A., see Almendral, M.J., 308 (1995) 170

Alonso, A., see de María, C.G., 309 (1995) 241

Alonso, B., see Losada, J., 338 (1997) 191

Alonso, C., see Almendral, M.J., 308 (1995) 170

Alonso, C., see Alonso, A., 308 (1995) 164

Alonso, J., Baró, J., Bartrolí, J., Sànchez, J. and del Valle, M., Flow-through tubular ion-selective electrodes responsive to anionic surfactants for flow-injection analysis, 308 (1995) 115

Alonso, J., see Araújo, A., 310 (1995) 289

Alonso, J., see Puig-Lleixà, C., 389 (1999) 179

Alonso, J., see Sanchez, J., 382 (1999) 157

Alonso, J.I.G., Determination of fission products and actinides by inductively coupled plasma-mass spectrometry using isotope dilution analysis: a study of random and systematic errors, 312 (1995) 57

Alonso, J.I.G., see Marchante-Gayón, J.M., 400 (1999) 307

Alonso, M.C. and Barceló, D., Tracing polar benzene- and naphthalenesulfonates in untreated industrial effluents and water treatment works by ion-pair chromatography-fluorescence and electrospray-mass spectrometry, 400 (1999) 211

Alonso, R.M., see Barroso, M.B., 305 (1995) 332

Alpendurada, M.F., see Castillo, M., 353 (1997) 133

Alpizar, J., Cladera, A., Cerdà, V., Lastres, E., Garcia, L. and Catasús, M., Simultaneous flow injection analysis of cadmium and lead with differential pulse voltammetric detection, 340 (1997) 149

Alpizar, J., see Cladera, A., 350 (1997) 163

Alpízar, J., see Albertús, F., 355 (1997) 23

Alsberg, B.K., Resolution of hidden minor peaks in multidetection chromatography by estimation of a single parameter in a 2-D transformation matrix, 309 (1995) 123

Alsberg, B. K., Properties of local rank map vectors from multidetection chromatograms, 318 (1996) 137

Alsberg, B.K., Goodacre, R., Rowland, J.J. and Kell, D.B., Classification of pyrolysis mass spectra by fuzzy multivariate rule induction-comparison with regression, K-nearest neighbour, neural and decision-tree methods, 348 (1997) 389

Alsberg, B.K., see Winson, M.K., 348 (1997) 273

Alsberg, B.K., Woodward, A.M., Winson, M.K., Rowland, J.J. and Kell, D.B., Variable selection in wavelet regression models, 368 (1998) 29

Al-Shawi, A.W. and Dahl, R., Determination of lanthanides in magnesium alloys by ion chromatography, 333 (1996) 23 Al-Shawi, A.W. and Dahl, R., The determination of cadmium and six other heavy metals in nitrate/phosphate fertilizer solution by ion chromatography, 391 (1999) 35

Alsina, M.A., see Haro, I., 303 (1995) 57

Alsina, M.A., see Pérez, J.A., 303 (1995) 65

Alt, F., Messerschmidt, J. and Weber, G., Investigation of low molecular weight platinum species in grass, 359 (1998) 65.

Al-Tamrah, S.A., Flow injection spectrophotometric determination of tenoxicam, 375 (1998) 277

Al-Tamrah, S.A., Spectrophotometric determination of nicotine, 379 (1999) 75

Alvarado, J.S., see Neal, T.J., 322 (1996) 11

Álvares-Ribeiro, L.M. and Machado, A.A., Usefulness of a ruggedness test in the validation of flow injection analysis systems, 355 (1997) 195

Álvarez, D.G., see Gomis, D.B., 396 (1999) 55

Alvarez, L.E.F., see Gomis, D.B., 315 (1995) 177

Alvarez, M.D.G., see Gomis, D.B., 315 (1995) 177

Alwarthan, A.A., Chemiluminescent determination of tryptophan in a flow injection system, 317 (1995) 233

Alwarthan, A.A., see Aly, F.A., 358 (1998) 255

Aly, F.A., Alarfaj, N.A. and Alwarthan, A.A., Flow-injection chemiluminometric determination of some phenothiazines in dosage forms and biological fluids, 358 (1998) 255

Alzaga, R., Pascual, E., Erra, P. and Bayona, J.M., Development of a novel supercritical fluid extraction procedure for lanolin extraction from raw wool, 381 (1999) 39

Amador-Hernández, J., Fernández-Romero, J.M., Ramis-Ramos, G. and Luque de Castro, M.D., Monitoring supercritical fluid extraction by thermal lens spectrometry with pulsed laser excitation. 390 (1999) 163

Amarasinghe, S., Ta-Yung, C., Moberg, P., Paul, H.J., Tinoco, F., Zook, L.A. and Leddy, J., Models for mediated reactions at film modified electrodes: controlled electrode potential, 307 (1995) 227

Amárita Vega, F., Núñez, C.G., Weigel, B., Hitzmann, B. and Diaz Ricci, J.C., On-line monitoring of galactoside conjugates and glycerol by flow injection analysis, 373 (1998) 57

Amárita, F., Fernández, C.R. and Alkorta, F., Hybrid biosensors to estimate lactose in milk, 349 (1997) 153

Ambiado, F.E., see Bruhn, C.G., 306 (1995) 183

Ambrose, T.M. and E. Meyerhoff, M., Optical ion sensing with immobilized thin films of photocrosslinked decyl methacrylate, 378 (1999) 119

Amemiya, S., Bühlmann, P., Tohda, K. and Umezawa, Y., Hydrogen bond based recognition of nucleotides by neutral-carrier ionselective electrodes, 341 (1997) 129

Amemiya, S., Bühlmann, P., Tohda, K. and Umezawa, Y., Hydrogen bond based recognition of nucleotides by neutral-carrier ionselective electrodes, 351 (1997) 407

Amer, M.M., see Hassan, S.S., 363 (1998) 81

Amesz, J., see Kobayashi, M., 365 (1998) 199

Aminot, A. and Kérouel, R., Assessment of heat treatment for nutrient preservation in seawater samples, 351 (1997) 299

Aminot, A., see Kérouel, R., 318 (1996) 385

Amiot, J., see Lemieux, L., 352 (1997) 399

Amouroux, D., Tessier, E., Pécheyran, C. and Donard, O.F.X., Sampling and probing volatile metal(loid) species in natural waters by in-situ purge and cryogenic trapping followed by gas chromatography and inductively coupled plasma mass spectrometry (P-CT-GC-ICP/MS), 377 (1998) 241

Amouroux, J., see Ben Rejeb, S., 376 (1998) 133

Amram, B., see Dupuy, N., 335 (1996) 79

An Li, K., see Liu, Y., 379 (1999) 39

Anantha Narayanan, V., see Pal, T., 368 (1998) 21

Anantha Narayanan, V., see Stokes, D.L., 399 (1999) 265

Ancarani, A., see Ristori, C., 325 (1996) 151

and the ALSPAC Team, see Keenan, F., 354 (1997) 1

Anderegg, G., Polynuclear complexes of the edta analogues, 394 (1999) 345

Anderegg, G., Kholeif, S. and Chena, B., Potentiometric study of the equilibria between triethylenetetraminehexaacetic acid and H(I), Mn(II), La(III) and Ga(III) in aqueous solution, 367 (1998) 261

Anderegg, G., see Cukrowski, I., 312 (1995) 307
Andersen, J.E., Introduction of hydrogen peroxide as an oxidant in flow injection analysis: speciation of Cr(III) and Cr(VI), 361 (1998) 125

Andersen, N.P.R., Holst-Hansen, P. and Britz, D., Using the electrochemical quartz crystal microbalance as stripping detector. Application to trace mercury analysis, 329 (1996) 253

Anderson, P., Davidson, C.M., Littlejohn, D., Ure, A.M., Shand, C.A. and Cheshire, M.V., The determination of caesium and silver in soil and fungal fruiting bodies by electrothermal atomic absorption spectrometry, 327 (1996) 53

Andersson, A., see Valverde, A., 338 (1997) 63

Andersson, C.A., see Barbieri, P., 398 (1999) 227

Andersson, J.T., see Traulsen, F., 392 (1999) 19

Andoh, Y., see Mawatari, K.i., 363 (1998) 133

Andrade, F.J., Iñon, F.A., Tudino, M.B. and Troccoli, O.E., Integrated conductimetric detection: mass distribution in a dynamic sample zone inside a flow injection manifold, 379 (1999) 99

Andrade, J.M., see Garrigues, S., 317 (1995) 95

Andrade, R.F., see Lichtig, J., 332 (1996) 161

Andre, F., see Bizec, B.L., 340 (1997) 201

André, L., see Vander Putten, E., 378 (1999) 261

Andreev, G.N. and Argirov, O.K., EXPIRS, an expert system for generation of alternative sets of substructures, derived by infrared spectra interpretation, 321 (1996) 105

Andreev, G.N., see Penchev, P.N., 388 (1999) 145

Andreou, V.G., Nikolelis, D.P. and Tarus, B., Electrochemical investigation of transduction of interactions of aflatoxin M<sub>1</sub> with bilayer lipid membranes (BLMs), 350 (1997) 121

Andres, R., see Taib, M.N., 330 (1996) 31

Andrew, K.N., Rutan, S.C. and Worsfold, P.J., Application of Kalman filtering to multivariate calibration and drift correction, 388 (1999) 315

Andrew, K.N., Sanders, M.G., Forbes, S. and Worsfold, P.J., Flow methods for the determination of polycyclic aromatic hydrocarbons using low power photomultiplier tube and charge coupled device chemiluminescence detection, 346 (1997) 113

Andrew, K.N., Worsfold, P.J. and Comber, M., On-line flow injection monitoring of ammonia in industrial liquid effluents, 314 (1995) 33 Andrews, A.R., see Taverna, P.J., 373 (1998) 111

Andrews, D.T. and Wentzell, P.D., Applications of maximum likelihood principal component analysis: incomplete data sets and calibration transfer, 350 (1997) 341

Andruch, V., see Balogh, I.S., 386 (1999) 161

Angel González-Martínez, M., Puchades, R., Maquieira, A., Ferrer, I., Pilar Marco, M. and Barceló, D., Reversible immunosensor for the automatic determination of atrazine. Selection and performance of three polyclonal antisera, 386 (1999) 201

Angel, S. Michael, see Nivens, D.A., 376 (1998) 235

Angelino, S. and Gennaro, M.C., An ion-interaction RP-HPLC method for the determination of the eleven EPA priority pollutant phenols, 346 (1997) 61

Angelone, M., see Mester, Z., 395 (1999) 157

Angnes, L., Azevedo, C.M.N., Araki, K. and Toma, H.E., Electrochemical detection of NADH and dopamine in flow analysis based on tetraruthenated porphyrin modified electrodes, 329 (1996) 91

Angnes, L., see Azevedo, C.M., 387 (1999) 175

Angnes, L., see Lima, A.W., 354 (1997) 325

Angnes, L., see Vieira, I.d.C., 398 (1999) 145

Angnes, L., see Wang, J., 305 (1995) 3

Angulo-Romero, F., see Wróbel, K., 387 (1999) 217

Anisimov, B., see Kuselman, I., 318 (1996) 327

Anklam, E., The validation of methods based on polymerase chain reaction for the detection of genetically modified organisms in food, 393 (1999) 177

Annen, M.J., see Nawrocki, J., 327 (1996) 261

Anstice, P.J., see Przybylko, A.R.M., 311 (1995) 77

Antelo, J.M., see Fiol, S., 385 (1999) 443

Anticó, E., Lerchi, M., Rusterholz, B., Achermann, N., Badertscher, M., Valiente, M. and Pretsch, E., Monitoring Pb<sup>2+</sup> with optical sensing films, 388 (1999) 327

Anticó, E., Masana, A., Hidalgo, M., Salvadó, V., Iglesias, M. and Valiente, M., Solvent extraction of yttrium from chloride media by di(2-ethylhexyl)phosphoric acid in kerosene. Speciation studies and gel formation, 327 (1996) 267

Anticó, E., see Fontàs, C., 346 (1997) 199

Anticó, E., see Iglesias, M., 381 (1999) 61

Antimisiaris, S.G., see Kontoyannis, C.G., 391 (1999) 83

Antiochia, R., Cass, A.E.G. and Palleschi, G., Purification and sensor applications of an oxygen insensitive, thermophilic diaphorase, 345 (1997) 17

Antonia Mendiola, M., see Jesús Gismera, M., 385 (1999) 143 Antonietta Baldo, M., see Daniele, S., 361 (1998) 141

Antonio Murillo Pulgarín, J. and Fernanda García Bermejo, L., First-derivative non-linear variable-angle synchronous fluorescence spectroscopy for the simultaneous determination of salicylamide, salsalate and naproxen in serum and urine, 373 (1998) 119

Antonisse, M.M.G., Lugtenberg, R.J.W., Egberink, R.J.M., Engbersen, J.F.J. and Reinhoudt, D.N., Durable nitrate-selective chemically modified field effect transistors based on new polysiloxane membranes, 332 (1996) 123

Antonov, L. and Stoyanov, S., Resolution of overlapping UV-visible absorption bands: quantitative analysis of tautomeric equilibria, 314 (1995) 225 Antonov, L. and Stoyanov, S., Step by step filter - an approach for noise reduction in the derivative UV-visible spectra, 324 (1996) 77

Antonov, L., Fourth derivative spectroscopy - a critical view, 349 (1997) 295

Antunes, A.M., see Chiarelli, M. Paul, 397 (1999) 257

Anunziata, J., see Giacomelli, L., 370 (1998) 79

Anunziata, J.D., see Reta, M.R., 306 (1995) 81

Anzalone, S., Bottari, E. and Festa, M.R., Determination of oligoelements in wheat, 343 (1997) 241

Aoki, T. and Wakabayashi, M., Simultaneous flow injection determination of nitrate and nitrite in water by gas-phase chemiluminescence, 308 (1995) 308

Aoki, T., Fukuda, S., Hosoi, Y. and Mukai, H., Rapid flow injection analysis method for successive determination of ammonia, nitrite, and nitrate in water by gas-phase chemiluminescence, 349 (1997) 11

Aoki, T., see Sugawara, Y., 365 (1998) 293

Aoyagi, H., see Kitatsuii, Y., 387 (1999) 181

Apak, R., see Arikan, B., 335 (1996) 155

Aparicio, R., see Calvente, J.J., 312 (1995) 281

Apostoluk, W. and Szymanowski, J., Application of the Kamlet and Taft model in solvent extraction chemistry of metals, 374 (1998) 137

Appleton, J., see Lee, K.M., 395 (1999) 179

Appriou, P., see Le Garrec, H., 350 (1997) 171

Apte, S.C., see Qingguo, W., 350 (1997) 129

Aragay, M., see Puigdomènech, A., 355 (1997) 181

Aragoni, M.C., Arca, M., Crisponi, G. and Nurchi, V.M., Simultaneous decomposition of several spectra into the constituent Gaussian peaks, 316 (1995) 195

Arai, F., see Morishima, K., 365 (1998) 273

Arai, H., see Ogawa, A., 383 (1999) 221

Arai, K., Kusu, F. and Takamura, K., Electrical potential oscillation across a water/octanol/water liquid membrane in the presence of two taste substances, 365 (1998) 279

Arai, N., see Minamisawa, H., 378 (1999) 279

Arai, N., see Minamisawa, H., 398 (1999) 289

Arai, T., see Ito, N., 312 (1995) 323

Arakawa, H., see Lin, J.M., 371 (1998) 171

Araki, K., see Angnes, L., 329 (1996) 91

Araki, K., see Azevedo, C.M., 387 (1999) 175

Araúdjo, A.N., see Celestino Oliveira, C., 371 (1998) 57

Araújo, A., Lima, J.L.F.C., Gracia, J., Poch, M., Alonso, J., Bartrolí, J. and del Valle, M., An integrated design strategy for flowinjection analysis based on the coupling of mathematical modelling and optimization algorithms, 310 (1995) 289

Araújo, A.N., Costa, R.C., Lima, J.L. and Reis, B.F., Sequential injection system in flame atomic absorption spectrometry for the determination of calcium and magnesium in mineral waters, 358 (1998) 111

Araújo, A.N., Lima, J.L.F.C., Reis, B.F. and Zagatto, E.A.G., Multicommutation in flow analysis. Part 3. Spectrophotometric kinetic determination of creatinine in urine exploiting a novel zone sampling approach, 310 (1995) 447

Araújo, A.N., see de Gracia, J., 348 (1997) 143

Araújo, A.N., see Luca, G.C., 366 (1998) 193

Araujo, A.N., see Martelli, P.B., 308 (1995) 397

Araújo, M.C.U., see Honorato, R.S., 396 (1999) 91

Araújo, M.C.U., see Silva, E.C., 319 (1996) 153

Arbab-Zavar, M.H., see Howard, A.G., 377 (1998) 95

Arca, M., see Aragoni, M.C., 316 (1995) 195

Arce, F., see Fiol, S., 385 (1999) 443

Arce, F., see Rey, F., 304 (1995) 375

Arce, L., Kuban, P., Ríos, A., Valcárcel, M. and Karlberg, B., Online ion-exchange preconcentration in a flow injection system coupled to capillary electrophoresis for the direct determination of UV absorbing anions, 390 (1999) 39

Arce, L., Teresa Tena, M., Rios, A. and Valcárcel, M., Determination of trans-resveratrol and other polyphenols in wines by a continuous flow sample clean-up system followed by capillary electrophoresis separation, 359 (1998) 27

Arcos, M.J., Ortiz, M.C., Villahoz, B. and Sarabia, L.A., Geneticalgorithm-based wavelength selection in multicomponent spectrometric determinations by PLS: application on indomethacin and acemethacin mixture, 339 (1997) 63

Arefi Khonsari, F., see Ben Rejeb, S., 376 (1998) 133

Arenaza, M.J., Gallo, B., Berrueta, L.A. and Vicente, F., Electrooxidation and determination of the 1,4-benzodiazepine loprazolam at the carbon-paste electrode, 305 (1995) 91

Argekar, A.A., see Kulkarni, M.J., 370 (1998) 163

Argiropoulos, G., Cattrall, R.W., Hamilton, I.C. and Paimin, R., Determination of the quaternary ammonium ion components of Aliquat 336 by electrospray mass spectrometry, 360 (1998) 167

Argirov, O.K., see Andreev, G.N., 321 (1996) 105

Arias, J.J., see Garcia, J.M., 317 (1995) 83

Arias, J.J., see Hernández, O., 310 (1995) 53

Arias, J.J., see Hernández, O., 320 (1996) 177 Arias, J.J., see Martín, M.E., 381 (1999) 247

Arias, M.E., see Rodriguez, J., 345 (1997) 121

Arias, V.E., see Gomis, D.B., 315 (1995) 177

Ariffin, M.M., see Saad, B., 338 (1997) 89

Arikan, B., Tuncay, M. and Apak, R., Sensitivity enhancement of the methylene blue catalytic-spectrophotometric method of selenium(IV) determination by CTAB, 335 (1996) 155

Arikawa, Y., see Ikebukuro, K., 329 (1996) 111

Arikawa, Y., see Lee, K.H., 386 (1999) 211

Arikawa, Y., see Lee, K.H., 398 (1999) 161

Arikawa, Y., see Sasaki, S., 347 (1997) 275

Arikawa, Y., see Yokoyama, K., 304 (1995) 139

Ariki, H., see Kogure, M., 337 (1997) 107

Arimura, A., see Ito, K., 382 (1999) 245

Ariño, C., see Giménez, M.D., 310 (1995) 121

Ariño, C., see Torres, M., 371 (1998) 23

Ariyama, K., see Tatsuma, T., 318 (1996) 297

Arkhipova, V.N., see Dzyadevich, S.V., 374 (1998) 11

Arkoub, I.A., Randriamahazaka, H. and Nigretto, J.-M., Effect of surface activation on charge and mass transfer rates of the hexacyanoferrate(III)/(II) redox probe at fibrinogen-modified carbon paste electrodes, 340 (1997) 99

Armalis, S. and Johansson, G., On-line trace metal determination by pre-concentration on immobilized 8-quinolinol with flow recycling anodic stripping voltammetry, 339 (1997) 155

Armalis, S., see Wang, J., 310 (1995) 223

Armanino, C. and Festa, M.R., Characterization of wheat by four analytical parameters. A chemometric study, 331 (1996) 43

Armas, R.d., see Estrella Legaz, M., 372 (1998) 201

Arnaud, A., see Fournand, D., 353 (1997) 359

Arnaud, P., see Gianazza, E., 372 (1998) 67

Arndt, M., see Hitzmann, B., 348 (1997) 161

Arnold, C., see Schaller, R.B., 312 (1995) 95 Arnold, M.A., see Chuang, H., 368 (1998) 83

Arnold, M.A., see Ding, Q., 384 (1999) 333

Arnold, M.A., see Hazen, K.H., 371 (1998) 255

Arnold, M.A., see Lin, L., 317 (1995) 265

Arnold, M.A., see Spear, S.K., 357 (1997) 79

Arnold, M.A., see Zhou, X., 304 (1995) 147

Arpadjan, S., see Alexandrova, A., 307 (1995) 71

Arranz, A., de Betoño, S.F., Moreda, J.M., Cid, A. and Arranz, J.F., Voltammetric behaviour of the antimycotic terbinafine at the hanging mercury drop electrode, 351 (1997) 97

Arranz, A., Dolara, I., Fernández de Betoño, S., María Moreda, J., Cid, A. and Francisco Arranz, J., Electroanalytical study and square wave voltammetric techniques for the determination of βblocker timolol at the mercury electrode, 389 (1999) 225

Arranz, A., see de Betoño, S.F., 329 (1996) 25

Arranz, J.F., see Arranz, A., 351 (1997) 97

Arranz, J.F., see de Betoño, S.F., 329 (1996) 25

Arruda, A.F. and Campiglia, A.D., Determination of trace levels of polychlorinated biphenyls on reversed phase octadecyl bonded silica membranes, 386 (1999) 271

Arruda, A.F., Campiglia, A.D., Chauhan, B.P.S. and Boudjouk, P., New organosilicon polymer for the extraction and luminescence analysis of uranyl in environmental samples, 396 (1999) 263

Arruda, M.A., see Silva, M.M., 368 (1998) 255

Arruda, M.A.Z., see Zagatto, E.A., 400 (1999) 249

Aruga, R., Treatment of responses below the detection limit: some current techniques compared by Factor Analysis on environmental data, 354 (1997) 255

Aruga, R., Gastaldi, D., Negro, G. and Ostacoli, G., Pollution of a river basin and its evolution with time studied by multivariate statistical analysis, 310 (1995) 15

Arunachalam, J., see Kumar, S.J., 371 (1998) 305

Asada, K., see Hirose, K., 365 (1998) 137

Asada, W., see Matsumoto, K., 358 (1998) 127

Asaeda, A., Ide, H., Terato, H., Takamori, Y. and Kubo, K., Highly sensitive assay of DNA abasic sites in mammalian cells-optimization of the aldehyde reactive probe method, 365 (1998) 35

Asai, R., Matsukawa, R., Ikebukuro, K. and Karube, I., Highly sensitive chemiluminescence flow-injection detection of the red tide phytoplankton *Heterosigma carterae*, 390 (1999) 237

Asakawa, N., see Shikata, Y., 365 (1998) 241

Asami, O., see Tajima, I., 365 (1998) 147

Asano, Y., see Hemmi, A., 316 (1995) 323

Asari, T.P.S., see Kayasth, S., 370 (1998) 91

Asari, T.P.S., see Raje, N., 318 (1996) 211

Ascenzo, G.D', see Wenli, L., 362 (1998) 253

Asensio, J.S., see Pinillos, S.C., 318 (1996) 377

Ash, R.B., see Cosofret, V.V., 314 (1995) 1

Ashino, T. and Takada, K., Determination of trace amounts of selenium and tellurium in nickel-based heat-resisting superalloys, steels and several metals by electrothermal atomic absorption spectrometry after reductive coprecipitation with palladium using ascorbic acid, 312 (1995) 157

Ashraf-Khorassani, M. and T. Taylor, L., Supercritical fluid extraction of mercury(II) ion via in situ chelation and pre-formed mercury complexes from different matrices, 379 (1999) 1

Ashraf-Khorassani, M. and Taylor, L.T., Supercritical fluid extraction of michellamines A and B from ancistrocladus korupensis leaves, 347 (1997) 305

Ashraf-Khorassani, M., see Barzegar, M., 349 (1997) 245

Ashraf-Khorassani, M., see Combs, M.T., 341 (1997) 285

Ashton, D.S., Beddell, C.P., Cooper, D.J. and Lines, A.C., Determination of carbohydrate heterogeneity in the humanised anti-body CAMPATH 1H by liquid chromatography and matrix-assisted laser desorption ionisation mass spectrometry, 306 (1995) 43

Ashworth, D., see Maines, A., 333 (1996) 223

Asoh, Y., see Nabuchi, Y., 365 (1998) 301

Astruc, A., see Pannier, F., 327 (1996) 287

Astruc, M., see Pannier, F., 327 (1996) 287

Asuero, A.G., see Ràfols, C., 302 (1995) 355

Atanasov, P., see Abdel-Hamid, I., 313 (1995) 45

Atanasov, P., see Abdel-Hamid, I., 399 (1999) 99

Atta, N., see Mark, Jr., H.B., 385 (1999) 281

Aubard, J., see Pérez, R., 369 (1998) 197

Aucélio, R.Q. and Campiglia, A.D., Solid surface room temperature phosphorimetry analysis of yohimbine hydrochloride in pharmaceutical formulations, 309 (1995) 345

Aucélio, R.Q., Rubin, V.N., Becerra, E., Smith, B.W. and Wine-fordner, J.D., Electrothermal atomization laser-excited atomic fluorescence spectrometry for direct analysis of germanium in water and blood samples, 350 (1997) 231

Audus, K.L., see Rose, M.J., 394 (1999) 299

Auffret, F., see Burgot, G., 343 (1997) 125
Augustin-Nowacka, D. and Chmurzyński, L., A potentiometric study of acid-base equilibria of substituted pyridines in acetonitrile, 381 (1999) 215

Augustin-Nowacka, D., see Chmurzyński, L., 336 (1996) 107

Aupiais, J., Dacheux, N., Thomas, A.C. and Matton, S., Study of neptunium measurement by alpha liquid scintillation with rejection of β-γ emitters, 398 (1999) 205

Aupiais, J., see Dacheux, N., 363 (1998) 279

Avidad, R., see Capitán, F., 331 (1996) 141

Avidad, R., see Capitán-Vallvey, L.F., 302 (1995) 193

Avignone, M.T., see Marengo, E., 317 (1995) 53

Awazu, K., Nagai, A., Tomimasu, T. and Aizawa, K., Analysis of free-electron laser-induced infrared multiphoton dissociation for cholesterol ester, 365 (1998) 193

Axelsson, V., see Pihlström, T., 356 (1997) 155

Ayame, A., see Dapaah, A.R., 360 (1998) 43

Ayame, A., see Dapaah, A.R., 386 (1999) 281

Ayora, M.J., Ballesteros, L., Pérez, R., Rupérez, A. and Laserna, J.J., Detection of atmospheric contaminants in aerosols by surfaceenhanced Raman spectrometry, 355 (1997) 15

Ayora-Cañada, M.J., Pascual-Reguera, M.I. and Molina-Díaz, A., Continuous flow-through solid phase spectrophotometric determination of trace amounts of zinc, 375 (1998) 71 Ayres Guidetti Zagatto, E., see Celestino Oliveira, C., 371 (1998) 57 Ayres, D.W., see Wring, S.A., 334 (1996) 225

Azenha, M.A.O., see Vasconcelos, M.T.S.D., 333 (1996) 97

Azevedo, C.M., Araki, K., Toma, H.E. and Angnes, L., Determination of sulfur dioxide in wines by gas-diffusion flow injection analysis utilizing modified electrodes with electrostatically assembled films of tetraruthenated porphyrin, 387 (1999) 175

Azevedo, C.M.N., see Angnes, L., 329 (1996) 91

Azubel, M., Fernández, F.M., Tudino, M.B. and Troccoli, O.E., Novel application and comparison of multivariate calibration for the simultaneous determination of Cu, Zn and Mn at trace levels using flow injection diode array spectrophotometry, 398 (1999) 93

Azuma, T., see Ozawa, K., 365 (1998) 3

## B

Baasner, J., see Guo, T., 320 (1996) 171

Baasner, J., see Guo, T., 331 (1996) 263

Baasner, J., see Guo, T., 349 (1997) 313

Baba, G. and Suzuki, K., Gonio-spectrophotometric analysis of white and chromatic reference materials, 380 (1999) 173

Babb, C., see Rechnitz, G.A., 337 (1997) 297

Babu, A.R., Rao, J.S.V.M.L., Krishna, D.M. and Rao, R.S., Acid-base equilibria of 2-furoic acid hydrazide and adipic acid dihydrazide in aqueous-organic media, 306 (1995) 297

Bachas, L.G., see Badr, I.H., 388 (1999) 63

Bachas, L.G., see Palet, C., 343 (1997) 287

Bachelor, M., see Okemgbo, A.A., 396 (1999) 105

Bachofen, R., see Stalder, V., 303 (1995) 91

Back, M.H., see Mandal, R., 395 (1999) 309

Back, M.H., see Mandal, R., 395 (1999) 323

Backofen, U., Hoffmann, W. and Matysik, F.M., Capillary batch injection analysis: a novel approach for analyzing nanoliter samples, 362 (1998) 213

Badía, R. and Díaz García, M.E., Room temperature phosphorescence flow-through biosensing of anionic surfactants, 371 (1998) 73

Badaoui, F.Z. and Bourson, J., Chromoionophores derived from a coumarin linked to monoaza- and diaza-crown ethers: formation of divalent 3d metal complexes, 302 (1995) 341

Badertscher, M., see Anticó, E., 388 (1999) 327

Badr, I.H., Plata, A., Molina, P., Alajarín, M., Vidal, A. and Bachas, L.G., Hydrogen sulfite optical sensor based on a lipophilic guanidinium ionophore, 388 (1999) 63

Badr, I.H.A., Meyerhoff, M.E. and Hassan, S.S.M., Novel response mechanism and application of sulfite sensitive polymeric membrane electrode based on dithiocarbamate complexes of mercury(II), 310 (1995) 211

Badr, I.H.A., Meyerhoff, M.E. and Hassan, S.S.M., Metalloporphyrin-based polymer membrane electrode with high selectivity for 2-hydroxybenzhydroxamate, 321 (1996) 11

Bae, S.Y., see Lee, D.S., 358 (1998) 163

Bae, S.Y., Southard, G.L. and Murray, G.M., Molecularly imprinted ion exchange resin for purification, preconcentration and determination of { UO}<sub>2</sub><sup>2\*</sup>by spectrophotometry and plasma spectrometry, 397 (1999) 173

Baesso, M.L., see Borgo, C.A., 385 (1999) 103

Baeten, H., see Hoenig, M., 358 (1998) 85

Baevens, W., see Croubels, S., 303 (1995) 11

Baeyens, W., see Overbeke, A.V., 346 (1997) 183

Baeyens, W., see Van Overbeke, A., 321 (1996) 245

Baeyens, W., see Vander Putten, E., 378 (1999) 261

Baeyens, W.R., see Rao, Y., 396 (1999) 273

Baeyens, W.R.G., see Ouyang, J., 362 (1998) 113

Baeyens, W.R.G., see Ouyang, J., 386 (1999) 257

Baeyens, W.R.G., see Schulman, S.G., 303 (1995) 25

Baeyens, W.R.G., see Zhang, X.R., 303 (1995) 121

Baeyens, W.R.G., see Zhang, X.R., 303 (1995) 137

Baeyens, W.R.G., see Zhang, Z., 347 (1997) 325

Baez, M.D., see Almendral, M.J., 308 (1995) 170

Báez, M.D., see Alonso, A., 308 (1995) 164

Baeza Baeza, J.J., see López Grío, S., 381 (1999) 275

Baeza, J., see Gabriel, D., 359 (1998) 173

Baeza, J.J.B., see Biosca, Y.M., 307 (1995) 145

Baeza-Baeza, J.J. and Ramis-Ramos, G., Reduction of the relative standard deviation in the least-squares fitting of linearized equations by using sensitivity weights, 316 (1995) 173

Baeza-Baeza, J.J., see Garcia-Alvarez-Coque, M.C., 324 (1996) 163

Baeza-Baeza, J.J., see Torres-Lapasió, J.R., 348 (1997) 187

Baeza-Baeza, J.J., see Yu-Long, X., 317 (1995) 17

Baeza-Baeza, J.J., see Yu-Long, X., 321 (1996) 75

Baezzat, M.R., see Safavi, A., 358 (1998) 121

Baezzat, M.R., see Safavi, A., 368 (1998) 113

Baffi, F., Ianni, C., Ravera, M., Soggia, F. and Magi, E., Evaluation of the acetate buffer attack of a sequential extraction scheme for marine particulate metal speciation studies by scanning electron microscopy with energy dispersive X-ray analysis, 360 (1998) 27

Baffi, F., Ravera, M., Ianni, M.C., Soggia, F. and Magi, E., Scanning electron microscopy with energy-dispersive electron probe X-ray analysis investigation of a sequential extraction scheme for copper, chromium, iron and aluminium speciation in marine suspended particulate matter, 306 (1995) 149

Baggiani, C., see Giraudi, G., 337 (1997) 93

Baggiani, C., see Giraudi, G., 378 (1999) 225

Baggiani, C., see Giraudi, G., 381 (1999) 133

Baggiani, C., see Giraudi, G., 392 (1999) 85

Bagheri, A., see Miran Beigi, A.A., 381 (1999) 117

Bagirova, N.A., see Shekhovtsova, T.N., 344 (1997) 145

Bagur, G., Sánchez-Viñas, M. and Gázquez, D., Determination of molybdenum in various materials by normal-phase liquid chromatography using N-benzoyl-N-phenylhydroxylamine, 309 (1995) 157

Bahsas, H., see Gallignani, M., 369 (1998) 57

Bai, Y., Ruan, X., Mo, J. and Xie, Y., Potentiometric stripping analysis of copper using cysteine modified mercury film electrode, 373 (1998) 39

Bailey, R.A. and Persaud, K.C., Application of inverse gas chromatography to characterisation of a polypyrrole surface, 363 (1998) 147

Bailing, Z., see Hongzhi, X., 319 (1996) 239

Baird, J., see Savage, A.L., 375 (1998) 1

Bakaltcheva, I.B., Ligler, F.S., Patterson, C.H. and Shriver-Lake, L.C., Multi-analyte explosive detection using a fiber optic biosensor, 399 (1999) 13

Baker, B., see Gemperline, P.J., 345 (1997) 155

Baker, J.G., Rezgui, N.D. and Alder, J.F., Quantitative millimetre wave spectroscopy. Part III: Theory of spectral detection and quantitative analysis in a millimetre wave confocal Fabry-Perot cavity spectrometer, 319 (1996) 277

Baker, J.G., see Alder, J.F., 367 (1998) 245

Baker, J.G., see Rezgui, N.D., 311 (1995) 99

Baker, J.G., see Rezgui, N.D., 312 (1995) 115

Baker, S.A., Dellavecchia, M.J., Smith, B.W. and Winefordner, J.D., Analysis of silicon nitride bearings with laser ablation inductively coupled plasma mass spectrometry, 355 (1997) 113

Bakken, G.A., Messick, N.J. and Kalivas, J.H., Determination of componentwise chromatographic elution regions using singular value evolving profiles, 334 (1996) 15

Bakker, E. and Pretsch, E., Lipophilicity of tetraphenylborate derivatives as anionic sites in neutral carrier-based solvent polymeric membranes and lifetime of corresponding ion-selective electrochemical and optical sensors, 309 (1995) 7

Bakker, E., Selectivity comparison of neutral carrier-based ionselective optical and potentiometric sensing schemes, 350 (1997) 329

Bakker, E., Diamond, D., Lewenstam, A. and Pretsch, E., Ion sensors: current limits and new trends, 393 (1999) 11

Bakker, E., see Mi, Y., 397 (1999) 103

Bakker, I., see Kok, S.J., 303 (1995) 3

Bakker, I., see Kok, S.J., 389 (1999) 77

Bakshi, B.R. and Utojo, U., A common framework for the unification of neural, chemometric and statistical modeling methods, 384 (1999) 227

Balcerzak, M. and Świecicka, E., Rapid simultaneous determination of ruthenium and osmium in aqueous solutions of their tetroxides by second-order derivative spectrophotometry, 349 (1997) 53

Baldini, E., see Pesavento, M., 389 (1999) 59

Baldo, M.A., Daniele, S. and Mazzocchin, G.A., Anodic characterization of mercury microelectrodes for determinations of anions in real samples, 340 (1997) 77

Baldo, M.A., see Daniele, S., 331 (1996) 117

Baldo, M.A., see Daniele, S., 346 (1997) 145

Baldovin, A., see Wen, W., 335 (1996) 11

Balinova, A., Extension of the bioautograph technique for multiresidue determination of fungicide residues in plants and water, 311 (1995) 423

Ball, H.L., see Mascagni, P., 352 (1997) 375

Baller, M.K., see Lang, H.P., 393 (1999) 59

Ballerstadt, R. and Schultz, J.S., Competitive-binding assay method based on fluorescence quenching of ligands held in close proximity by a multivalent receptor, 345 (1997) 203

Ballesta, A.M., see Bedini, J.L., 305 (1995) 304

Ballesteros, B., Barceló, D., Camps, F. and Marco, M.-P., Preparation of antisera and development of a direct enzyme-linked immunosorbent assay for the determination of the antifouling agent Irgarol 1051, 347 (1997) 139

Ballesteros, B., see Gascón, J., 347 (1997) 149

Ballesteros, B., see Oubiña, A., 387 (1999) 255

Ballesteros, E., Gallego, M. and Valcárcel, M., Simultaneous determination of sterols in edible oils by use of a continuous separation module coupled to a gas chromatograph, 308 (1995) 253

Ballesteros, E., Gallego, M., Valcárcel, M. and Grases, F., Continuous kinetic method for the quantitative resolution of structural isomers of arginine and ornithine, 315 (1995) 145

Ballesteros, E., see González, M., 359 (1998) 47

Ballesteros, E., see Rodríguez, J., 375 (1998) 99

Ballesteros, E., see Torres, P., 308 (1995) 371

Ballesteros, L., see Ayora, M.J., 355 (1997) 15

Balogh, I.S. and Andruch, V., Comparative spectrophotometric study of the complexation and extraction of tellurium with various halide ions and N.N'-di(acetoxyethyl)indocarbocyanine, 386 (1999) 161

Band, B.S. Fernández, see Palomeque, M.E., 366 (1998) 287

Bandel, K., see Rettberg, P., 387 (1999) 289

Bangov, I.P., Funatsu, K., Del Carpio, C.A. and Sasaki, S.-i., Fast calculation of π-electron charge densities in organic molecules: Non-condensed compounds, 314 (1995) 101

Banks, P.R., see Little, M.J., 339 (1997) 279

Bañó, M.C., see Salom, D., 352 (1997) 309

Bao, L., see Qu, X., 374 (1998) 47

Bao, L., Tan, H., Duan, Q., Su, X. and Wei, W., A rapid method for determination of *Staphylococcus aureus* based on milk coagulation by using a series piezoelectric quartz crystal sensor, 369 (1998) 139

Baohong, L., Renqi, H. and Jiaqi, D., Studies on a potentiometric urea biosensor based on an ammonia electrode and urease, immobilized on a γ-aluminum oxide matrix, 341 (1997) 161

Barahona, E., see Campos, E., 369 (1998) 235

Baraj, B., Sastre, A., Martinez, M. and Spahiu, K., Simultaneous determination of chloride complexes of Pt(IV) and Pd(II) by capillary zone electrophoresis with direct UV absorbance detection, 319 (1996) 191

Barakat, S.A. and Thorburn Burns, D., Spectrophotometric determination of bismuth after extraction of benzyltributylammonium tetraiodobismuthate(III), 355 (1997) 167

Barakat, S.A., Determination of manganese in steel after extraction of dimethyldistearylammonium permanganate, 393 (1999) 223

Barakat, S.A., Rusan, M. and Thorburn Burns, D., Spectrophotometric determination of cobalt by extraction of benzyltributylammonium tetrathiocyanatocobaltate(II), 355 (1997) 163

Baralkiewicz, D. and Siepak, J., Determination of trace amounts of molybdenum in water samples by graphite furnace atomic absorption spectrometry with multiple injections and cool down step, 353 (1997) 85

Bárány, K., see Bárány, M., 372 (1998) 33

Bárány, M., Bárány, K. and Giometti, C.S., Gel electrophoresis for studying biological function, 372 (1998) 33

Barary, M.H., see Wintersteiger, R., 306 (1995) 273

Barbaise, T., see Walcarius, A., 340 (1997) 61

Barbaro, A., see Ristori, C., 325 (1996) 151

Barbieri, P., Andersson, C.A., Massart, D.L., Predonzani, S., Adami, G. and Reisenhofer, E., Modeling bio-geochemical interactions in the surface waters of the Gulf of Trieste by three-way principal component analysis (PCA), 398 (1999) 227 Barbosa, J., Barrón, D. and Butí, S., Chromatographic behaviour of ionizable compounds in liquid chromatography. Part 1. pH scale, pK<sub>a</sub> and pH<sub>S</sub> values for standard buffers in tetrahydrofuran water. 389 (1999) 31

Barbosa, J., Barrón, D., Beltrán, J.L. and Sanz-Nebot, V., PKPOT, a program for the potentiometric study of ionic equilibria in aqueous and non-aqueous media, 317 (1995) 75

Barbosa, J., Bergés, R., Sanz-Nebot, V. and Toro, I., Chromatographic behavior of ionizable compounds in liquid chromatography. Part 2. Standardization of potentiometric sensors and effect of pH and ionic strength on the retention of analytes using acetonitrile-water mobile phases, 389 (1999) 43

Barbosa, J., Fonrodona, G., Marqués, I., Sanz-Nebot, V. and Toro, I., Solvent effects on protonation equilibria of peptides and quinolones by factor analysis applied to the correlation between dissociation constants and solvatochromic parameters in acetonitrile-water mixtures, 351 (1997) 397

Barbosa, J., Marqués, I., Fonrodona, G., Barrón, D. and Bergés, R., Factor analysis applied to correlation between acidity constants of series of diuretics, quinolones and buffers, with solvatochromic parameters in water-acetonitrile mixtures, 347 (1997) 385

Barbosa, J., Toro, I. and Sanz-Nebot, V., Acid-base behaviour of tripeptides in solvents used in liquid chromatography. Correlation between pK values and solvatochromic parameters of acetonitrile-water mixtures, 347 (1997) 295

Barceló, D. and Hennion, M.-C., On-line sample handling strategies for the trace-level determination of pesticides and their degradation products in environmental waters, 318 (1995) 1

Barceló, D. and Hennion, M.C., Sampling of polar pesticides from water matrices, 338 (1997) 3

Barceló, D., Preface, 362 (1998) 1

Barceló, D., Oubiña, A., Salau, J.S. and Perez, S., Determination of PAHs in river water samples by ELISA, 376 (1998) 49

Barceló, D., see Aguilar, C., 386 (1999) 237

Barceló, D., see Alonso, M.C., 400 (1999) 211

Barceló, D., see Angel González-Martínez, M., 386 (1999) 201

Barceló, D., see Ballesteros, B., 347 (1997) 139

Barceló, D., see Brecht, A., 362 (1998) 69

Barceló, D., see Castillo, M., 353 (1997) 133

Barceló, D., see Gascón, J., 311 (1995) 357

Barceló, D., see Gascón, J., 330 (1996) 41

Barceló, D., see Gascón, J., 347 (1997) 149

Barcelo, D., see Hennion, M.C., 362 (1998) 3

Barceló, D., see Marco, M.-P., 311 (1995) 319

Barceló, D., see Marty, J.L., 311 (1995) 265

Barceló, D., see Nunes, G.S., 362 (1998) 59

Barceló, D., see Nunes, G.S., 387 (1999) 245

Barceló, D., see Nunes, G.S., 399 (1999) 37

Barceló, D., see Oubina, A., 346 (1997) 49

Barceló, D., see Oubiña, A., 347 (1997) 121 Barcelo, D., see Oubiña, A., 387 (1999) 255

Barceló, D., see Oubiña, A., 387 (1999) 267

Barceló, D., see Penalva, J., 387 (1999) 227

Barceló, D., see Puig, D., 311 (1995) 63

Barciela-Alonso, M.C., see Yebra-Biurrun, M.C., 303 (1995) 341

Barczyński, P., see Chmurzyński, L., 335 (1996) 147

Barczyński, P., see Chmurzyński, L., 336 (1996) 107

Bardea, A., Dagan, A. and Willner, I., Amplified electronic transduction of oligonucleotide interactions: novel routes for Tay-Sachs biosensors, 385 (1999) 33

Barefoot, R.R. and Van Loon, J.C., Determination of platinum and gold in anticancer and antiarthritic drugs and metabolites, 334 (1996) 5

Barek, J., Beranová, J., G. Fogg, A., Mejstřík, V., Moreira, J.C. and Zima, J., Polarographic and voltammetric determination of Ostacetate Blue P3R, 356 (1997) 231

Barek, J., Fogg, A.G., Moreira, J.C., Zanoni, M.V.B. and Zima, J., Polarographic and voltammetric determination of selected triazine-based azo dyes with different reactive groups, 320 (1996) 31

Barek, J., Pumera, M., Muck, A., Kadeřábková, M. and Zima, J., Polarographic and voltammetric determination of selected nitrated polycyclic aromatic hydrocarbons, 393 (1999) 141

Barek, J., see Fogg, A.G., 362 (1998) 235

Barek, J., see Zanoni, M.V.B., 315 (1995) 41

Barek, J., see Zanoni, M.V.B., 349 (1997) 101

Bari, V.R., Dhorda, U.J. and Sundaresan, M., Simultaneous estimation of nalidixic acid and metronidazole in dosage forms using packed column supercritical fluid chromatography, 376 (1998) 221

Barisci, J.N. and Wallace, G.G., Development of an improved online chromatographic monitor with new methods for environmental and process control, 310 (1995) 79

Barisci, J.N., Hughes, D., Minett, A. and Wallace, G.G., Characterisation and analytical use of a polypyrrole electrode containing anti-human serum albumin, 371 (1998) 39

Barisci, J.N., see Adeloju, S.B., 332 (1996) 145

Barker, A.L., Gonsalves, M., Macpherson, J.V., Slevin, C.J. and Unwin, P.R., Scanning electrochemical microscopy: beyond the solid/liquid interface, 385 (1999) 223

Barkó, G. and Hlavay, J., Application of principal component analysis for the characterisation of a piezoelectric sensors array, 367 (1998) 135

Barkó, G., Abonyi, J. and Hlavay, J., Application of fuzzy clustering and piezoelectric chemical sensor array for investigation on organic compounds, 398 (1999) 219

Barmin, A., see Makower, A., 357 (1997) 13

Barnard, S.M., see Ferguson, J.A., 340 (1997) 123

Barnard, W., see Yongsheng, C., 318 (1995) 103

Barnett, N.W., Bowser, T.A., Gerardi, R.D. and Smith, B., Determination of codeine in process streams using flow-injection analysis with chemiluminescence detection, 318 (1996) 309

Barnett, N.W., Hindson, B.J. and Lewis, S.W., Determination of 5hydroxytryptamine (serotonin) and related indoles by flow injection analysis with acidic potassium permanganate chemiluminescence detection, 362 (1998) 131

Barnett, N.W., Hindson, B.J. and Lewis, S.W., Determination of Ranitidine and Salbutamol by Flow Injection Analysis with Chemiluminescence Detection, 384 (1999) 151

Barnett, N.W., see Gerardi, R.D., 378 (1999) 1

Barnett, N.W., see Gerardi, R.D., 388 (1999) 1

Baró, J., see Alonso, J., 308 (1995) 115

Barrado, E., see Vega, M., 310 (1995) 131

Barranco, M., see Losada, J., 338 (1997) 191

Barrera, A.B., see Calvo, C.P., 310 (1995) 189

Barrera, P.B., see Calvo, C.P., 310 (1995) 189

Barrero, F.A., see Campaña, A.M.G., 348 (1997) 237

Barrero, F.A., see García Campaña, A.M., 329 (1996) 319

Barrio, R.J., see de Erenchun, N.R., 349 (1997) 199

Barrio, R.J., see Goicolea, M.A., 305 (1995) 310

Barrio, R.J., see Portela, M.J., 327 (1996) 65

Barrio, R.J., see Rodríguez, E., 384 (1999) 63

Barrón, D., see Barbosa, J., 317 (1995) 75

Barrón, D., see Barbosa, J., 347 (1997) 385 Barrón, D., see Barbosa, J., 389 (1999) 31

Barros, A.A., Rodrigues, J.A., Almeida, P.J., Rodrigues, P.G. and Fogg, A.G., Voltammetry of compounds confined at the hanging

mercury drop electrode surface, 385 (1999) 315 Barros, A.A., see Almeida, P.J., 385 (1999) 287

Barroso, M.B., Alonso, R.M. and Jiménez, R.M., Electrochemical determination of the loop diuretics piretanide and furosemide in pharmaceutical formulations and urine, 305 (1995) 332

Barroso-Fernandez, B., Theresa Lee-Alvarez, M., Seliskar, C.J. and Heineman, W.R., Electrochemical behavior of methyl viologen at graphite electrodes modified with Nafion sol–gel composite, 370 (1998) 221

Bart, G., see Suard, C., 318 (1996) 261

Bartholomäus, L., see Moritz, W., 393 (1999) 49

Bartle, K.D., see Özel, M.Z., 346 (1997) 73

Bartlett, M.G., Haas, G.M., Bruce, D.A., Thomas, S.M., White, M.G., Bertrand, J.A. and Busch, K.L., Characterization of supported and unsupported transition metal compounds by liquid secondary ion mass spectrometry, 346 (1997) 223

Bartrol, J., see Jiménez, C., 351 (1997) 169

Bartrolí, J., see Puig-Lleixà, C., 359 (1998) 311

Bartrolí, J., see Puig-Lleixà, C., 386 (1999) 13

Bartrolí, J., see Puig-Lleixà, C., 389 (1999) 179

Bartrolí, J., Alerm, L., Fabry, P. and Siebert, E., Conductive epoxygraphite composite as a solid internal reference in a NASICONbased sodium ion-selective electrode for flow-injection analysis, 308 (1995) 102

Bartroli, J., see Alonso, J., 308 (1995) 115

Bartroli, J., see Araújo, A., 310 (1995) 289

Bartroli, J., see Cretin, M., 350 (1997) 7

Barwick, V.J., Ellison, S.L. and Fairman, B., Estimation of uncertainties in ICP-MS analysis: a practical methodology, 394 (1999) 281

Barzegar, M., Daneshfar, A. and Ashraf-Khorassani, M., Effect of parameters on supercritical fluid extraction of nitro-polynuclear aromatic hydrocarbons from sand, 349 (1997) 245

Barzen, C., see Brecht, A., 362 (1998) 69

Basly, I., see Basly, J.P., 372 (1998) 373

Basly, J.P., Basly, I. and Bernard, M., Electron spin resonance identification of irradiated ascorbic acid: Dosimetry and influence of powder fineness, 372 (1998) 373

Basly, J.P., Longy, I. and Bernard, M., Radiosterilization dosimetry by electron-spin resonance spectroscopy: Cefotetan, 359 (1998) 107

Bastić, M.B., see Rajaković, L.V., 318 (1995) 77

Batchelor, B., see Gemperline, P.J., 345 (1997) 155

Bathmann, U., see de Jong, J.T.M., 377 (1998) 113

Batley, G.E., see Adeloju, S.B., 381 (1999) 207

Batley, G.E., see Qingguo, W., 350 (1997) 129

Batley, G.E., see Teasdale, P.R., 367 (1998) 201

Batley, G.E., see Wu, Q., 309 (1995) 95

Battiston, F.M., see Lang, H.P., 393 (1999) 59

Bauer, C.G., see Eremenko, A.V., 358 (1998) 5

Bauer, C.G., see Ghindilis, A.L., 304 (1995) 25

Bauer, C.G., see Streffer, K., 362 (1998) 81

Bauerle, G.F., Ray, K.L. and Brodbelt, J.S., Determination of pyrethroid insecticides by ion trap GC-MS-MS, 317 (1995) 137

Baulin, V.E., see Petrukhin, O.M., 353 (1997) 11

Baulin, V.Ye., see Petrukhin, O.M., 385 (1999) 125

Baumann, B.A., see Krämer, P.M., 347 (1997) 187

Baumann, K. and Clerc, J.T., Computer-assisted IR spectra prediction – linked similarity searches for structures and spectra, 348 (1997) 327

Baumann, R.A., see Hoogerbrugge, R., 348 (1997) 247

Baumgarten, H., see Eremenko, A.V., 358 (1998) 5

Baumstark-Khan, C., Hellweg, C.E., Scherer, K. and Horneck, G., Mammalian cells as biomonitors of UV-exposure, 387 (1999) 281

Baumstark-Khan, C., see Rettberg, P., 387 (1999) 289

Baur, J.E., Miller, H.M. and Ritchason, M.A., Diffusional interaction between closely spaced dual microelectrodes, 397 (1999) 123

Bausells, J., see Casabó, J., 320 (1996) 63

Bauzá de Mirabó, F.M., Thomas, A.Ch., Rubí, E., Forteza, R. and Cerdà, V., Sequential injection analysis system for determination of mercury by cold-vapor atomic absorption spectroscopy, 355 (1997) 203

Bauza, R., Ríos, A. and Valcárcel, M., Supercritical fluid extraction for selective extraction of enantiomers, 391 (1999) 253

Bayona, J.M., see Alzaga, R., 381 (1999) 39

Bayona, J.M., see Dachs, J., 351 (1997) 377

Bayona, J.M., see Fernández-Escobar, I., 355 (1997) 269

Bayona, J.M., see Yong, C., 314 (1995) 183

Bazhang, Y., see Bo, H., 312 (1995) 329

Bazilyanskaya, V., see Loginova, L., 315 (1995) 55

Bazilyanskaya, V.D., see Loginova, L.P., 307 (1995) 37

Bea, F., see Montero, P., 358 (1998) 227

Beasley, H., see Sánchez-Bayo, F., 399 (1999) 173

Becerra, E., see Aucélio, R.Q., 350 (1997) 231

Bechmann, I.E., Determination of formaldehyde in frozen fish with formaldehyde dehydrogenase using a flow injection system with an incorporated gel-filtration chromatography column, 320 (1996) 155

Bechmann, I.E., Nørgaard, L. and Ridder, C., Generalized standard addition in flow-injection analysis with UV-visible photodiode array detection, 304 (1995) 229

Becker, G. and Colmsjö, A., Gas chromatography–atomic emission detection for quantification of polycyclic aromatic sulfur heterocycles, 376 (1998) 265

Becker, G., Colmsjö, A. and Östman, C., Elemental composition determination of organophosphorus compounds using gas chromatography and atomic emission spectrometric detection, 340 (1997) 181

Becker, J.S., Kerl, W. and Dietze, H.J., Nuclide analysis of an irradiated tantalum target of a spallation neutron source using

high performance ion chromatography and inductively coupled plasma mass spectrometry, 387 (1999) 145

Becker, J.S., see Panday, V.K., 329 (1996) 153

Becker, M., Fuhrmann, B. and Spohn, U., Selective determination of gas dialysable components in complex sample solutions using triangle programmed coulometric titration in continuous flow systems., 324 (1996) 115

Beckett, R., see Contado, C., 345 (1997) 99

Beckett, R., see Ranville, J.F., 381 (1999) 315

Beckles, D., see Boguslavsky, L., 311 (1995) 15

Beddell, C.P., see Ashton, D.S., 306 (1995) 43

Bedini, J.L., Mas, E., Deulofeu, R., Marin, J.L. and Ballesta, A.M., Evaluation of the ion selective electrodes module in the DAX analyzers, 305 (1995) 304

Bedioui, F., see Manriquez, J., 378 (1999) 159

Bedioui, F., Trevin, S., Albin, V., Villegas, M.G.G. and Devynck, J., Design and characterization of chemically modified electrodes with iron(III) porphyrinic-based polymers: Study of their reactivity toward nitrites and nitric oxide in aqueous solution, 341 (1997) 177

Beebe, T.P., see Han, T., 307 (1995) 365

Beekman, M.C., see Mank, A.J.G., 315 (1995) 209

Begerow, J., Turfeld, M. and Dunemann, L., Determination of physiological noble metals in human urine using liquid-liquid extraction and Zeeman electrothermal atomic absorption spectrometry, 340 (1997) 277

Begleiter, A., see Joseph, W., 344 (1997) 111

Beier, R.C. and Stanker, L.H., 4,4'-Dinitrocarbanilide – hapten development utilizing molecular models, 376 (1998) 139

Bejan, D., Kinetic-catalytic-spectrophotometric determination of low concentrations of molybdenum in white wines, 390 (1999) 255

Bekkers, M., see Dane, A.D., 351 (1997) 359

Bel'skih, N.V., see Rajaković, L.V., 318 (1995) 77

Belikov, K.N., Blank, A.B., Shevtsov, N.I., Nadzhafova, O.Yu. and Tananaiko, M.M., X-ray fluorescence determination of mobile forms of Cu, Zn and Co in soils with preconcentration on silica gel modified by didecylaminoethyl-β-tridecylammonium iodide, 383 (1999) 277

Belin, C., see Guéguen, C., 386 (1999) 155

Bell, S.E., see Snyder, A.P., 316 (1995) 1

Bell, S.E., Wang, Y.F., Walsh, M.K., Du, Q., Ewing, R.G. and Eiceman, G.A., Qualitative and quantitative evaluation of deconvolution for ion mobility spectrometry, 303 (1995) 163

Bellagamba, G., see Laganà, A., 354 (1997) 87

Bellerby, R.G.J., Turner, D.R., Millward, G.E. and Worsfold, P.J., Shipboard flow injection determination of sea water pH with spectrophotometric detection, 309 (1995) 259

Bellgardt, K.-H., see Xiaoan, W., 313 (1995) 161

Belli, S.L., see Hernández-Ayón, J. Martín, 394 (1999) 101

Bellinger, D.A., see Cosofret, V.V., 314 (1995) 1

Bellisario, F., see Wenli, L., 362 (1998) 253

Bellocq, J., see Matsuzawa, S., 312 (1995) 165

Belmont, C., Tercier, M.-L., Buffle, J., Fiaccabrino, G.C. and Koudelka-Hep, M., Mercury-plated iridium-based microelectrode arrays for trace metals detection by voltammetry: optimum conditions and reliability, 329 (1996) 203 Beltran, A., see Sanchez, J., 382 (1999) 157

Beltran, J., López, F.J., Forcada, M. and Hernández, F., Microextraction procedures combined with large volume injection in capillary gas chromatography for the determination of pesticide residues in environmental aqueous samples, 356 (1997) 125

Beltrán, J.L., Ferrer, R. and Guiteras, J., Multivariate calibration of polycyclic aromatic hydrocarbon mixtures from excitation emission fluorescence spectra, 373 (1998) 311

Beltrán, J.L., see Barbosa, J., 317 (1995) 75

Beltrán, J.L., see Ferrer, R., 330 (1996) 199

Beitrán, J.L., see Ferrer, R., 346 (1997) 253

Beltrán, J.L., see Ferrer, R., 384 (1999) 261 Beltrán, J.L., see Guiteras, J., 361 (1998) 233

Belyaev, N.D., see Wako, T., 365 (1998) 9

Ben Ouada, H., see Mlika, R., 354 (1997) 283

Ben Rejeb, S., Fischer Durand, N., Martel, A., Poulennec, B.L., Lawrence, J.F., Hennion, M.C. and Le Goffic, F.v., Development of anti-phenylurea antibody purification techniques for improved environmental applications, 376 (1998) 41

Ben Rejeb, S., Tatoulian, M., Arefi Khonsari, F., Fischer Durand, N., Martel, A., Lawrence, J.F., Amouroux, J. and Le Goffic, F.v., Functionalization of nitrocellulose membranes using ammonia plasma for the covalent attachment of antibodies for use in membrane-based immunoassays, 376 (1998) 133

Bendicho, C., see Lavilla, I., 381 (1999) 297

Bendicho, C., see Pérez-Cid, B., 360 (1998) 35

Bendicho, C., see Pérez-Cid, B., 378 (1999) 201

Benecke, C., Grund, R., Hohberger, R., Kerber, A., Laue, R. and Wieland, T., MOLGEN\*, a generator of connectivity isomers and stereoisomers for molecular structure elucidation, 314 (1995) 141

Benegas, J.C., Cleven, R.F. and van den Hoop, M.A., Potentiometric titration of poly(acrylic acid) in mixed counterion systems: Chemical binding of Cd ions, 369 (1998) 109

Benegas, J.C., see van den Hoop, M.A.G.T., 317 (1995) 327

Benes, R., see Trinkel, M., 320 (1996) 235

Benfenati, E., see Cai, X., 310 (1995) 153

Beng Khoo, S. and Zhu, J., Poly(pyrogallol) film on glassy carbon electrode for selective preconcentration and stripping voltammetric determination of Sb(III), 373 (1998) 15

Bengmark, S., see Momeni, N., 387 (1999) 21

Benito, C.G., see Romero, A.M., 308 (1995) 451

Benito, I., see Jiménez, O., 353 (1997) 367

Benling, G., Yongming, L., Zhuanhe, L. and Tiezheng, L., Determination of selenium and tellurium in nickel and nickel/iron-based alloys by graphite furnace atomic absorption spectrometry with a nickel/palladium matrix modifier, 304 (1995) 115

Benmakroha, F. and Alder, J.F., Development of humidity correction algorithm for surface acoustic wave sensors Part 2. Mathematical model for water and nitrobenzene co-adsorption on aminopropyltriethoxysilane coated surface acoustic wave sensors, 302 (1995) 255

Benmakroha, F. and Alder, J.F., Toward development of a humidity correction algorithm for surface acoustic wave sensors Part 3. Water, nitrobenzene and 2-nitrotoluene adsorption on platinum/ lead coated piezoelectric sensors, 317 (1995) 281

Benmakroha, F. and Alder, J.F., Toward development of a humidity correction algorithm for surface acoustic wave sensors Part 4. The effect of coating mass, relative humidity and temperature on the isosteric heat of adsorption of benzene, toluene, 2-nitrotoluene and 2,4-dinitrotoluene onto platinum/lead-coated piezoelectric crystals, 343 (1997) 215

Bennett, W., see Wang, J., 385 (1999) 429

Benson, R.L., McKelvie, I.D., Hart, B.T., Truong, Y.B. and Hamilton, I.C., Determination of total phosphorus in waters and wastewaters by on-line UV/thermal induced digestion and flow injection analysis, 326 (1996) 29

Bento, A.C., see Borgo, C.A., 385 (1999) 103

Bento, M.F., Geraldo, M.D. and Montenegro, M.I., Effect of the medium composition on the current of steady state voltammograms of neutral and charged species in dimethylformamide/ toluene mixtures, 385 (1999) 365

Beppu, Y., see Miyake, S., 376 (1998) 97

Beppu, Y., see Morimune, K., 376 (1998) 37

Beranová, J., see Barek, J., 356 (1997) 231

Berbel, F., see Ezequiel Rollemberg, M.C., 392 (1999) 349

Bereczki, A. and Horváth, V., Novel type of flow injection immunoassay for the determination of phenytoin in serum, 391 (1999) 9

Bergamin F, H., see Kronka, E.A.M., 334 (1996) 287

Bergamin Filho, H., see Sartini, R.P., 366 (1998) 119

Bergamin Fo, H., see Martelli, P.B., 308 (1995) 397

Bergamin F', H., see Neto, J.A.G., 308 (1995) 439

Berger, R., see Lang, H.P., 393 (1999) 59

Bergés, R., see Barbosa, J., 347 (1997) 385

Bergés, R., see Barbosa, J., 389 (1999) 43

Bergevoet, A.J.H., see Schipper, E.F., 341 (1997) 171

Bergmann, W., Rudolph, R. and Spohn, U., A bienzyme modified carbon paste electrode for amperometric detection of pyruvate, 394 (1999) 233

Bermejo, E., see Chicharro, M., 379 (1999) 81

Bermejo, E., see Hernández, L., 336 (1996) 85

Bermejo, E., see Perlado, J.C., 305 (1995) 83

Bermejo-Barrera, A., see Bermejo-Barrera, P., 310 (1995) 355

Bermejo-Barrera, A., see Bermejo-Barrera, P., 349 (1997) 319

Bermejo-Barrera, A., see Bermejo-Barrera, P., 368 (1998) 281

Bermejo-Barrera, A., see Bermejo-Barrera, P., 374 (1998) 231

Bermejo-Barrera, A., see Bermejo-Barrera, P., 398 (1999) 263

Bermejo-Barrera, A., see Yebra-Biurrun, M.C., 303 (1995) 341

Bermejo-Barrera, M.P., see Cespón-Romero, R.M., 327 (1996) 37

Bermejo-Barrera, M.P., see Yebra-Biurrun, M.C., 303 (1995) 341 Bermejo-Barrera, P., Moreda-Piñeiro, A., Moreda-Piñeiro, J. and

Bermejo-Barrera, A., Determination of lead in illicit drugs by electrothermal atomic absorption spectrometry using palladium as chemical modifier, 310 (1995) 355

Bermejo-Barrera, P., Moreda-Piñeiro, A., Moreda-Piñeiro, J. and Bermejo-Barrera, A., Determination of nickel in human scalp hair by slurry sampling - electrothermal atomic absorption spectrometry, 349 (1997) 319

Bermejo-Barrera, P., Moreda-Piñeiro, J., Moreda-Piñeiro, A. and Bermejo-Barrera, A., Direct trace determination of lead in estuarine water using in situ preconcentration of lead hydride on Ir, Zr and W-coated graphite tubes, 368 (1998) 281

Bernal, J.G., see Pinillos, S.C., 318 (1996) 377

Bernard, C., see Town, R.M., 302 (1995) 1

Bernard, M., see Basly, J.P., 359 (1998) 107

Bernard, M., see Basly, J.P., 372 (1998) 373

Bernard, N., see Stalder, V., 303 (1995) 91

Bernat, M., see Monna, F., 330 (1996) 107

Bernhard Weigl, see Finch, M.S., 377 (1998) 167

Berntsson, M., Tengberg, A., Hall, P.O. and Josefson, M., Multivariate experimental methodology applied to the calibration of a Clark type oxygen sensor, 355 (1997) 43

Berntsson, O., Danielsson, L.G. and Folestad, S., Estimation of effective sample size when analysing powders with diffuse reflectance near-infrared spectrometry, 364 (1998) 243

Berregi, I., see Novic, M., 381 (1999) 287

Berrueta, L.A., see Arenaza, M.J., 305 (1995) 91

Berset, J.D., Ejem, M., Holzer, R. and Lischer, P., Comparison of different drying, extraction and detection techniques for the determination of priority polycyclic aromatic hydrocarbons in background contaminated soil samples, 383 (1999) 263

Berthet, J., see Duriche, C., 395 (1999) 351

Bertolini, G., see Mascagni, P., 352 (1997) 375

Bertotti, M. and Pletcher, D., Amperometric determination of nitrite via reaction with iodide using microelectrodes, 337 (1997) 49

Bertran, E., see Blanco, M., 353 (1997) 351

Bertrand, J.A., see Bartlett, M.G., 346 (1997) 223

Bervoas-Martin, S., see Hubert, P., 391 (1999) 135

Berzas Nevado, J.J., Guiberteau Cabanillas, C. and Contento Salcedo, A.M., Method development and validation for the simultaneous determination of dyes in foodstuffs by capillary zone electrophoresis, 378 (1999) 63

Berzas, J.J., Rodríguez Flores, J., Villaseñor Llerena, M.J. and Rodríguez Fariñas, N., Spectrophotometric resolution of ternary mixtures of Tartrazine, Patent Blue V and Indigo Carmine in commercial products, 391 (1999) 353

Berzas, J.J., Rodríguez, J. and Castañeda, G., Partial least squares method in the analysis by square wave voltammetry. Simultaneous determination of sulphamethoxypyridazine and trimethoprim, 349 (1997) 303

Berzina, T.S., see Di Natale, C., 384 (1999) 249

Besombes, J.-L., Cosnier, S., Labbé, P. and Reverdy, G., A biosensor as warning device for the detection of cyanide, chlorophenols, atrazine and carbamate pesticides, 311 (1995) 255

Besombes, J.-L., Cosnier, S., Labbé, P. and Reverdy, G., Improvement of the analytical characteristics of an enzyme electrode for free and total cholesterol via laponite clay additives, 317 (1995) 275

Besoo, P., see de Beer, T., 390 (1999) 55

Bessière, J., Khayar, M. and Etahiri, A., Impedance studies of the adsorption of hydrophobic and hydrophylic species on mineral pulps, 305 (1995) 265

Bessière, J., see Mignano, L., 305 (1995) 137

Bessière, J., see Perdicakis, M., 385 (1999) 467

Bessiere, J., see Walcarius, A., 340 (1997) 61

Bessière, J., see Walcarius, A., 361 (1998) 273

Bessiere, J., see Walcarius, A., 385 (1999) 79

Besson, C., see Rival, S., 312 (1995) 213

Bettelheim, A., see Mayo, N., 310 (1995) 139

Bettencourt da Silva, R.J., Camões, M. Filomena G.F.C. and Seabra e Barros, J., Validation and quality control schemes based on the expression of results with uncertainty, 393 (1999) 167 Beurdeley-Saudou, P., see Dupuy, N., 335 (1996) 79

Beyer, K., Reinecke, M., Noe, W. and Scheper, T., Immunobased elution assay for process control, 309 (1995) 301

Beyer, L., see El Aamrani, F.Z., 329 (1996) 247

Beyermann, M., see Krause, E., 352 (1997) 365

Bezarashvili, G.S., see Rukhadze, M.D., 356 (1997) 19

Bhada, R.K., see Wang, J., 361 (1998) 85

Bhagwat, A.M., see Bhoir, I.C., 354 (1997) 123

Bhagwat, A.M., see Patel, Y., 362 (1998) 271

Bhargava, S.K., see Hind, A.R., 377 (1998) 39

Bhoir, I.C., Raman, B., Sundaresan, M. and Bhagwat, A.M., Separation and estimation of diloxanide furoate and metronidazole in solid dosage form using packed column supercritical fluid chromatography, 354 (1997) 123

Bhoir, I.C., see Patil, S.T., 384 (1999) 143

Biagini, R.E., see Mastin, J.P., 376 (1998) 119

Biagini, R.E., see Striley, C.A.F., 399 (1999) 109

Bianchi, G., see Shaw, A.D., 348 (1997) 357

Bianco, P. and Lattuca, C., Membrane-assembly of carbon microelectrodes for the electrochemical study of redox proteins, 353 (1997) 53

Bied-Charreton, C., see Manriquez, J., 378 (1999) 159

Bienert, M., see Krause, E., 352 (1997) 365

Bier, F., see Makower, A., 357 (1997) 13

Bier, F.F., Ehrentreich-Förster, E., Dölling, R., Eremenko, A.V. and Scheller, F.W., A redox-label immunosensor on basis of a bienzyme electrode, 344 (1997) 119

Bier, F.F., Ehrentreich-Förster, E., Makower, A. and Scheller, F.W., An enzymatic amplification cycle for high sensitive immunoassay, 328 (1996) 27

Bier, F.F., see Ghindilis, A.L., 304 (1995) 25

Bier, F.F., see Kleinjung, F., 350 (1997) 51

Biesuz, R., see Pesavento, M., 346 (1997) 381

Biesuz, R., see Pesavento, M., 367 (1998) 215

Bigey, F., see Fournand, D., 353 (1997) 359

Bijlsma, S. and Smilde, A.K., Application of curve resolution based methods to kinetic data, 396 (1999) 231

Bijlsma, S., Louwerse (Ad), D.J., Windig, W. and Smilde, A.K., Rapid estimation of rate constants using on-line SW-NIR and trilinear models, 376 (1998) 339

Bilewicz, R., see Jarzębińska, A., 396 (1999) 1

Bilewicz, R., see Muszalska, E., 334 (1996) 309

Bilitewski, U., see Mayer, M., 324 (1996) 37

Bilitewski, U., see Papaefstathiou, I., 330 (1996) 265

Bilodeau, T., see Ewing, K.J., 340 (1997) 227

Bin, L., Iwuoha, E.I., Smyth, M.R. and O'Kennedy, R., Development of an "electrically wired" amperometric immunosensor for the determination of biotin based on a non-diffusional redox osmium polymer film containing an antibody to the enzyme label horseradish peroxidase, 345 (1997) 59

Bin, L., Smyth, M.R. and O'Kennedy, R., Immunological activities of IgG antibody on pre-coated Fc receptor surfaces, 331 (1996) 97

Bin, L., Smyth, M.R., O'Kennedy, R., Moulds, J. and Frame, T., Development of an amperometric immunosensor based on flow injection analysis for the detection of red blood cells, 340 (1997) 175 Bin, M., see Ya-Ping, S., 319 (1996) 379

Bing, S., see Lau, O.-W., 343 (1997) 85

Bing, S., see Oi-wah, L., 312 (1995) 217

Binotto, R., see Bohrer, D., 362 (1998) 163

Biosca, Y.M. and Ramis-Ramos, G., Optical saturation thermal lens spectrometry in non-polar solvents, 345 (1997) 257

Biosca, Y.M., Alfonso, E.F.S., Romero, J.S.E., Baeza, J.J.B. and Ramis-Ramos, G., Optical saturation, diffusion and convection effects in thermal lens spectrometry, 307 (1995) 145

Birch, J.R. and Clarke, F.J.J., Interreflection errors in Fourier transform spectroscopy: a preliminary appraisal, 380 (1999) 369

Birkett, J.W., Jones, M.N., Bryan, N.D. and Livens, F.R., The effects of solution conditions on partial specific volumes of humic substances, 362 (1998) 299

Birkett, J.W., see Jones, M.N., 314 (1995) 149

Birot, D., see Daniel, A., 308 (1995) 413

Birot, D., see Floch, J., 377 (1998) 157

Birot, D., see Le Bris, N., 356 (1997) 205

Bitterwolf, T.E., see Brauer, R.D., 349 (1997) 239

Bittner, D.L., see Hughes, K.D., 307 (1995) 393

Bittner, M. and Broekaert, J.A.C., Speciation of chromium by solidphase extraction coupled to reversed-phase liquid chromatography with UV detection, 364 (1998) 31

Bizec, B.L., Monteau, F., Maume, D., Montrade, M.-P., Gade, C. and Andre, F., Detection and identification of thyreostats in the thyroid gland by gas chromatography-mass spectrometry, 340 (1997) 201

Bizzarri, M., see Laganà, A., 316 (1995) 377

Bjarnason, B., Bousios, N., Eremin, S. and Johansson, G., Flow injection enzyme immunoassay of atrazine herbicide in water, 347 (1997) 111

Bjarnason, B., Johansson, P. and Johansson, G., A novel thermal biosensor: evaluation for determination of urea in serum, 372 (1998) 341

Björefors, F. and Nyholm, L., Stripping voltammetry at preplated mercury coated microelectrodes in flowing solutions, 325 (1996) 11

Björefors, F., see Matysik, F.M., 385 (1999) 409

Björefors, F., see Nyholm, L., 327 (1996) 211

Björklund, E., Järemo, M., Mathiasson, L., Åke Jönsson, J. and Karlsson, L., Illustration of important mechanisms controlling mass transfer in supercritical fluid extraction, 368 (1998) 117

Björklund, L.B. and Morrison, G.M., Determination of copper speciation in freshwater samples through SPE-spectrophotometry, 343 (1997) 259

Blagojević, N., see Zejnilović, R.M., 327 (1996) 107

Blain, S. and Tréguer, P., Iron(II) and iron(III) determination in sea water at the nanomolar level with selective on-line preconcentration and spectrophotometric determination, 308 (1995) 425

Blain, S., see Floch, J., 377 (1998) 157

Blake II, R.C., see Blake, D.A., 376 (1998) 13

Blake, D.A., Blake II, R.C., Khosraviani, M. and Pavlov, A.R., Immunoassays for metal ions, 376 (1998) 13

Blanc, R., see Luis Vilchez, J., 371 (1998) 247

Blanchin, M.D., see Fabre, H., 381 (1999) 29

Blanco López, M.A., see González Martín, I., 368 (1998) 175

Blanco, C.C., see Carretero, A.S., 329 (1996) 165

Blanco, C.C., see Carretero, A.S., 353 (1997) 337

Blanco, C.C., see Carretero, A.S., 361 (1998) 217

Blanco, C.C., see Sánchez, F.G., 306 (1995) 313

Blanco, M., Coello, J., Eustaquio, A., Iturriaga, H. and Maspoch, S., Analytical control of pharmaceutical production steps by near infrared reflectance spectroscopy, 392 (1999) 237

Blanco, M., Coello, J., Gené, J., İturriaga, H., Maspoch, S. and Puigdomènech, A.R., Application of the Davidon-Fletcher-Powell algorithm to the resolution of multicomponent mixtures using UV-vis spectrophotometry, 327 (1996) 145

Blanco, M., Coello, J., Iturriaga, H., Maspoch, S. and Bertran, E., Determination of accelerators and antioxidants in vulcanized rubber by fourier transform infrared spectrophotometry, 353 (1997) 351

Blanco, M., Coello, J., Iturriaga, H., Maspoch, S. and de la Pezuela, C., Quantitation of the active compound and major excipients in a pharmaceutical formulation by near infrared diffuse reflectance spectroscopy with fibre optical probe, 333 (1996) 147

Blanco, M., Coello, J., Iturriaga, H., Maspoch, S. and Pagès, J., Use of near-infrared spectrometry in control analyses of acrylic fibre manufacturing processes, 383 (1999) 291

Blanco, M., Coello, J., Iturriaga, H., Maspoch, S. and Pagès, J., Calibration in non-linear near infrared reflectance spectroscopy: a comparison of several methods, 384 (1999) 207

Blanco, M., Coello, J., Iturriaga, H., Maspoch, S. and Porcel, M., Simultaneous enzymatic spectrophotometric determination of ethanol and methanol by use of artificial neural networks for calibration, 398 (1999) 83

Blanco, M., Coello, J., Iturriaga, H., Maspoch, S. and Redón, M., Partial least-squares regression for multicomponent kinetic determinations in linear and non-linear systems, 303 (1995) 309

Blanco, M., see Eustaquio, A., 383 (1999) 283

Blanco, M.H., see Hernandez, L., 356 (1997) 239

Blanco, T., see Giné, M.F., 323 (1996) 47

Blank, A.B., see Belikov, K.N., 383 (1999) 277

Blank, A.B., see Eksperiandova, L.P., 371 (1998) 105

Blank, A.B., see Eksperiandova, L.P., 396 (1999) 317

Blank, A.B., see Ivkova, T.I., 395 (1999) 213

Blank, A.B., see Pulyayeva, I.V., 357 (1997) 239

Blankenstein, G., see Spohn, U., 303 (1995) 109

Blankwater, Y.J., see Setford, S.J., 398 (1999) 13

Blasco, F., Medina-Hernández, M.J. and Sagrado, S., Use of pH gradients in continuous-flow systems and multivariate regression techniques applied to the determination of methionine and cysteine in pharmaceuticals, 348 (1997) 151

Blasco-Gómez, F., see Campíns-Falcó, P., 379 (1999) 89

Blaz, T., see Migdalski, J., 322 (1996) 141

Blaz, T., see Migdalski, J., 395 (1999) 65

Blázquez, M.G., see Ruiz, M.A., 305 (1995) 49

Block, J., see Hrijac, J.A., 350 (1997) 221

Blomqvist, S. and Westin, S., Interference from chromate, germanate, tungstate and vanadate when determining phosphate in aqueous solution by the phosphoantimonylmolybdenum blue method, 358 (1998) 245

Blond, P., see Tournier, E.J.M., 361 (1998) 33

Blum, L.J., see Marquette, C.A., 381 (1999) 1

Blum, L.J., see Marquette, C.A., 398 (1999) 173

Blum, L.J., see Michel, P.E., 360 (1998) 89

Blum, U. and Schwedt, G., Inhibition behavior of acid phosphatase, phosphodiesterase I and adenosine deaminase as tools for trace metal analysis and speciation, 360 (1998) 101

Bo, H., Bazhang, Y., Peibiao, L., Mian, J., Yongsheng, B. and Shufang, W., Vitamin B<sub>1</sub> ion-selective microelectrode based on a liquid-liquid interface at the tip of a micropipette, 312 (1995) 329

Bobacka, J., Ivaska, A. and Lewenstam, A., Plasticizer-free allsolid-state potassium-selective electrode based on poly(3octylthiophene) and valinomycin, 385 (1999) 195

Bobacka, J., see Lindfors, T., 355 (1997) 217

Bobacka, J., see Lindfors, T., 385 (1999) 163

Bobbitt, D.R., see Wang, X., 383 (1999) 213

Bocchini, P., see Galletti, G.C., 335 (1996) 245

Bocchini, P., see Rodriguez, J., 345 (1997) 121

Bodenhöfer, K., see Hierlemann, A., 346 (1997) 327

Bogan, D.P., see Deasy, B., 310 (1995) 101

Boggetti, H., see Giacomelli, L., 370 (1998) 79

Boguslavsky, L., Kalash, H., Z., X., Beckles, D., Geng, L., Skotheim, T. and Laurinavicius, V., Thin film bienzyme amperometric biosensors based on polymeric redox mediators with electrostatic bipolar protecting layer, 311 (1995) 15

Boguslavsky, L., see Laurinavicius, V., 330 (1996) 159

Bohanec, S. and Moder, M., A computer program for searching the best model for describing different experimental systems, 340 (1997) 267

Bohrer, D., Gioda, A., Binotto, R. and Cícero do Nascimento, P., Online separation and spectrophotometric determination of low levels of aluminum in high-salt content samples: application to analysis of hemodialysis fluids, 362 (1998) 163

Bokhee, K., see Min, J.C., 315 (1995) 311

Bollhöfer, A., Chisholm, W. and Rosman, K.J.R., Sampling aerosols for lead isotopes on a global scale, 390 (1999) 227

Bolliet, D., F. Poole, C. and Rosés, M., Conjoint prediction of the retention of neutral and ionic compounds (phenols) in reversedphase liquid chromatography using the solvation parameter model, 368 (1998) 129

Bolshov, M.A., see Chisholm, W., 347 (1997) 351

Bolyos, A., see Paneli, M., 304 (1995) 177

Bonastre, A., see Peris, M., 354 (1997) 249

Bond, A.M., 200 years of practical electroanalytical chemistry: past, present and future directions illustrated by reference to the online, on-stream and off-line determination of trace metals in zinc plant electrolyte by voltammetric and potentiometric techniques, 400 (1999) 333

Bond, A.M., Kratsis, S. and Newman, O. Michael G., Combined use of differential pulse adsorptive and anodic stripping techniques for the determination of antimony(III) and antimony(V) in zinc electrolyte, 372 (1998) 307

Bond, A.M., Mahon, P.J., Schiewe, J. and Vicente-Beckett, V., An inexpensive and renewable pencil electrode for use in field-based stripping voltammetry, 345 (1997) 67

Bond, A.M., Miao, W., Smith, T.D. and Jamis, J., Voltammetric reduction of mercury(II), silver(I), lead(II) and copper(II) ions adsorbed onto a new form of mesoporous silica, 396 (1999) 203

Bond, A.M., see Cardwell, T.J., 340 (1997) 169

Bond, A.M., see Downard, A.J., 317 (1995) 303

Bond, A.M., see Huang, W., 304 (1995) 1

Bond, A.M., see Neshkova, M.T., 362 (1998) 221

Bond, A.M., see Tait, R.J., 324 (1996) 1

Bond, A.M., Turoczy, N.J. and Carter, R.J., The electrochemistry of monobutyltin and mixtures of butyltin compounds at mercury electrodes in aqueous media, 310 (1995) 109

Bondarenko, I., see Treiger, B., 317 (1995) 33

Bonet, M.J., see Rosés, M., 333 (1996) 241

Bonfil, Y., Brand, M. and Kirowa-Eisner, E., Determination of subμg l<sup>-1</sup> concentrations of copper by anodic stripping voltammetry at the gold electrode, 387 (1999) 85

Bong, K.O., see Min, J.C., 315 (1995) 311

Bontempelli, G., see Schiavon, G., 305 (1995) 212

Booksh, K.S. and Kowalski, B.R., Calibration method choice by comparison of model basis functions to the theoretical instrumental response function, 348 (1997) 1

Booksh, K.S., see JiJi, R.D., 397 (1999) 61

Boone, B. Edward, Gichuhi, A. and Shannon, C., Resonance Raman spectroscopy as a probe of electrosynthesized materials: principles and selected results, 397 (1999) 43

Boppana, V.K. and Miller-Stein, C., High-performance liquid chromatographic determination of peptide drugs in biological fluids by means of pre- and post-column fluorescence derivatization techniques, 352 (1997) 61

Boqué, R., see Ferré, J., 348 (1997) 167

Boqué, R., see Maroto, A., 391 (1999) 173

Boquien, C.Y., see Joyeux, C., 320 (1996) 77

Bor Fuh, C. and Wu, M.L., Impurity analysis of methamidophos with chromatographic methods, 395 (1999) 257

Bordes, A.L., Limoges, B., Brossier, P. and Degrand, C., Simultaneous homogeneous immunoassay of phenytoin and phenobarbital using a Nafion-loaded carbon paste electrode and two redox cationic labels, 356 (1997) 195

Bordin, G., see Virtanen, V., 372 (1998) 231

Borg, N. and Ståhle, L., Recovery as a function of the osmolality of the perfusion medium in microdialysis experiments, 375 (1998)

Borg, N. and Ståhle, L., Recovery as a function of the osmolality of the perfusion medium in microdialysis experiments, 379 (1999)

Borges, M.T.M.R., see Fatibello-Filho, O., 366 (1998) 81

Borgo, C.A., Ferrari, R.T., Colpini, L.M.S., Costa, C.M.M., Baesso, M.L. and Bento, A.C., Voltammetric response of a copper(II) complex incorporated in silica-modified carbon-paste electrode, 385 (1999) 103

Boring, C.B. and Dasgupta, P.K., An affordable high-performance optical absorbance detector for capillary systems, 342 (1997) 123

Borissevitch, I.E., Tominaga, T.T., Imasato, H. and Tabak, M., Resonance light scattering study of aggregation of two water soluble porphyrins due to their interaction with bovine serum albumin, 343 (1997) 281

Bornhop, D.J., see Houlne, M.P., 397 (1999) 267

Bornhop, D.J., see Swinney, K., 400 (1999) 265

Bornscheuer, U.T., see Ji, H.S., 387 (1999) 39

Bornscheuer, U.T., see Minning, S., 378 (1999) 293

Bornscheuer, U.T., see Yano, K., 340 (1997) 41

Bornscheuer, U.T., see Zocher, F., 391 (1999) 345

Borrego, E., Sicilia, D., Rubio, S. and Pérez-Bendito, D., Determination of drugs based on the formation of mixed aggregates with surfactants, 362 (1998) 285

Borrego, E., Sicilia, D., Rubio, S. and Pérez-Bendito, D., Pseudononionic complexes as a new approach to the determination of ionic amphiphilic substances, 384 (1999) 105

Borrego, E., Sicilia, D., Rubio, S. and Pérez-Bendito, D., Determination of polysorbates in foods by formation of mixed micelles. 384 (1999) 175

Borremans, B., see Corbisier, P., 387 (1999) 235

Borrmann, G. and Seubert, A., Aluminum speciation by liquid chromatography concerning hydro- and geo-chemical aspects,

Borrmann, G. and Seubert, A., Aluminum speciation by means of anion chromatography and coupled anion/cation chromatography, 386 (1999) 77

Borrull, F., see Aguilar, C., 386 (1999) 237

Bos, M. and van der Linden, W.E., A knowledge based advisory system for acid/base titrations in non-aqueous solvents, 332 (1996) 201

Bos, M. and Vrielink, J.A.M., Constraints, iteration schemes and convergence criteria for concentration calculations in X-ray fluorescence spectrometry with the use of fundamental parameter methods, 373 (1998) 291

Bos, M., see Hartnett, M.K., 316 (1995) 347

Bos, M., see Hulsman, M., 324 (1996) 13

Bos, M., see Hulsman, M., 346 (1997) 351

Bos, M., see Palys, M.J., 337 (1997) 5

Bos, M., see van Akker, E.B., 373 (1998) 227

Bos, M., see van Akker, E.B., 378 (1999) 111

Bosc, N., see Fabre, H., 381 (1999) 29

Bosch, E., Fonrodona, G., Ràfols, C. and Rosés, M., Autoprotolysis in aqueous organic solvent mixtures. Water/dipolar protophilic solvent binary systems, 349 (1997) 367

Bosch, E., Ràfols, C. and Rosés, M., Variation of acidity constants and pH values of some organic acids in water-2-propanol mixtures with solvent composition. Effect of preferential solvation, 302 (1995) 109

Bosch, E., see Fonrodona, G., 335 (1996) 291

Bosch, E., see Muinasmaa, U., 340 (1997) 133

Bosch, E., see Oumada, F.Z., 382 (1999) 301

Bosch, E., see Ràfols, C., 302 (1995) 355

Bosch, E., see Ràfols, C., 338 (1997) 127

Bosch, E., see Ràfols, C., 350 (1997) 249

Bosch, E., see Rived, F., 374 (1998) 309

Bosch, E., see Rosés, M., 333 (1996) 241

Bosch, E., see Sastre, A., 350 (1997) 197

Boschi, T., see Brunink, J.A.J., 325 (1996) 53

Bosch-Reig, F., see Campins-Falcó, P., 302 (1995) 323

Bosch-Reig, F., see Campins-Falcó, P., 315 (1995) 267

Bosch-Reig, F., see Campins-Falcó, P., 334 (1996) 199

Bosch-Reig, F., see Campins-Falcó, P., 348 (1997) 39

Bosch-Reig, F., see Campins-Falcó, P., 379 (1999) 89

Bosch-Reig, F., see Gallo-Martinez, L., 370 (1998) 115

Bosmans, E., see De Boever, J., 303 (1995) 143 Bosner, B., see Cimerman, Z., 343 (1997) 145

Bosque-Sendra, J.M., see Molina, M.F., 389 (1999) 281

Bosque-Sendra, J.M., see Nechar, M., 382 (1999) 117

Bosque-Sendra, J.M., see Valencia, M.C., 327 (1996) 73

Bossi, A., see Righetti, P.G., 372 (1998) 1

Botrè, C., see Mazzei, F., 316 (1995) 79

Botrè, C., see Mazzei, F., 336 (1996) 67

Botrè, F., see Mazzei, F., 316 (1995) 79 Botrè, F., see Mazzei, F., 328 (1996) 41

Botrè, F., see Mazzei, F., 336 (1996) 67

Botsoglou, N.A., Fletouris, D.J., Psomas, I.E. and Mantis, A.I., Retention behaviour of the sulphoxide, sulphone and 2-aminosulphone metabolites of albendazole in ion-pair liquid chromatography, 354 (1997) 115

Botsoglou, N.A., see Fletouris, D.J., 345 (1997) 111

Bottari, E., see Anzalone, S., 343 (1997) 241

Boturyn, D., see Houdier, S., 382 (1999) 253

Boudjouk, P., see Arruda, A.F., 396 (1999) 263

Boudra, S., see Valencia, M.C., 327 (1996) 73

Bouhsain, Z., Garrigues, S., Morales-Rubio, A. and de la Guardia, M., Flow injection spectrophotometric determination of paracetamol in pharmaceuticals by means of on-line microwaveassisted hydrolysis and reaction with 8-hydroxyquinoline (8quinolinol), 330 (1996) 59

Boujitta, M., Chapleau, M. and El Murr, N., Biosensors for analysis of ethanol in food: effect of the pasting liquid, 319 (1996) 91

Boulanger, B., see Chiap, P., 391 (1999) 227

Boulanger<sup>1</sup>, B., see Hubert, P., 391 (1999) 135

Bourgeois, A., see Heyden, Y.V., 347 (1997) 369

Bourguignon, B., see de Aguiar, P.F., 356 (1997) 7

Bourguignon, B., see Jimidar, M., 310 (1995) 27

Bourson, J., see Badaoui, F.Z., 302 (1995) 341

Bousios, N., see Bjarnason, B., 347 (1997) 111

Boutron, C.F., see Chisholm, W., 311 (1995) 141

Boutron, C.F., see Chisholm, W., 347 (1997) 351

Bouveresse, E., Rutan, S.C., Heyden, Y.V., Penninckx, W. and Massart, D.L., Detection, interpretation and correction of changes in the instrumental response of near-infrared monochromator instruments over time, 348 (1997) 283

Bouveresse, E., see Jouan-Rimbaud, D., 388 (1999) 283

Bouvrette, P. and Luong, J.H.T., A coupled enzymatic assay for salicylate and acetylsalicylate using salicylate hydroxylase and tyrosinase, 335 (1996) 169

Bouzige, M., see Pichon, V., 376 (1998) 21

Bowers, G.D., see Wring, S.A., 334 (1996) 225

Bowie, A.R., Achterberg, E.P., Mantoura, R. Fauzi C. and Worsfold, P.J., Determination of sub-nanomolar levels of iron in seawater using flow injection with chemiluminescence detection, 361 (1998) 189

Bowles, K.C., see Qingguo, W., 350 (1997) 129

Bowlin, D., see Johll, M., 302 (1995) 133

Bowser, T.A., see Barnett, N.W., 318 (1996) 309

Boyer, N.R., see Dempster, M.A., 310 (1995) 43

Boyle, E.A., see Wu, J., 367 (1998) 183

Braco, L., see Salom, D., 352 (1997) 309

Braga, S., see Merkoci, A., 391 (1999) 65

Bragato, C., see Daniele, S., 346 (1997) 145

Bragato, C., see Daniele, S., 361 (1998) 141

Braglia, M., see Abollino, O., 383 (1999) 243

Braglia, M., see Bruzzoniti, M.C., 322 (1996) 49

Brainina, K., Schafer, H., Ivanova, A. and Khanina, R., Determination of copper, lead and cadmium in whole blood by stripping voltammetry with the use of graphite electrodes, 330 (1996) 175

Brainina, K., see Faller, C., 396 (1999) 195

Brainina, K., see Stojko, N.Yu., 371 (1998) 145

Brainina, K.Z., Sensors and sample preparation in stripping voltammetry, 305 (1995) 146

Brainina, K.Z., Ivanova, A.V. and Malakhova, N.A., Disposable thick film modified graphite electrodes for stripping voltammetry, 349 (1997) 85

Brajter-Toth, A., see Chen, C.H., 321 (1996) 209

Brajter-Toth, A., see Hsueh, C., 349 (1997) 67

Brajter-Toth, A., see Regino, M., 369 (1998) 253

Brajter-Toth, A., see Spurlock, L.D., 336 (1996) 37

Branco, P.S., see Chiarelli, M. Paul, 397 (1999) 257

Brand, M., see Bonfil, Y., 387 (1999) 85

Brand, M., see Kirowa-Eisner, E., 385 (1999) 325

Brandes, L., see Jürgens, H., 302 (1995) 289

Brandšteter, R., see Katrlík, J., 356 (1997) 217

Branica, M., see Cuculić, V., 339 (1997) 181

Branica, M., see Djogić, R., 305 (1995) 159

Branica, M., see Omanović, D., 339 (1997) 147

Branica, M., see Pižeta, I., 331 (1996) 125 Branica, M., see Pižeta, I., 351 (1997) 73

Brauer, R.D., Bitterwolf, T.E., Smart, N.G., Burford, M.D. and Wai, C.M., Prediction of retention behavior of ferrocene derivatives in supercritical fluid chromatography, 349 (1997) 239

Braungardt, C., P. Achterberg, E. and Nimmo, M., On-line voltammetric monitoring of dissolved Cu and Ni in the Gulf of Cadiz, south-west Spain, 377 (1998) 205

Braungardt, C., see Achterberg, E.P., 400 (1999) 381

Bravo, J.L., see Manriquez, J., 378 (1999) 159

Bravo, R., see Hsueh, C., 349 (1997) 67

Bravo-Díaz, C. and González-Romero, E., A novel method for the determination of vitamin C in natural orange juices by electrochemical monitoring of dediazoniation of 3-methylbenzenediazonium tetrafluoroborate, 385 (1999) 373

Breach, J., see Young, D., 381 (1999) 69

Brecht, A. and Gauglitz, G., Label free optical immunoprobes for pesticide detection, 347 (1997) 219

Brecht, A., Klotz, A., Barzen, C., Gauglitz, G., Harris, R.D., Quigley, G.R., Wilkinson, J.S., Sztajnbok, P., Abuknesha, R., Gascón, J., Oubiña, A. and Barceló, D., Optical immunoprobe development for multiresidue monitoring in water, 362 (1998) 69

Brecht, A., Piehler, J., Lang, G. and Gauglitz, G., A direct optical immunosensor for atrazine detection, 311 (1995) 289

Brecht, A., see Länge, K., 399 (1999) 275

Brecht, A., see Mouvet, C., 338 (1997) 109

Bremser, W. and Hässelbarth, W., Controlling uncertainty in calibration, 348 (1997) 61

Brenes, N., Quigley, M.N. and Reid, W.S., Determination of soil pH using a laboratory robot, 310 (1995) 319

Brenna, J. Thomas, see Corso, T.N., 397 (1999) 217

Brennan, J.D., Brown, R.S., Cohen, H., Egamino, J., Semchyschyn, D., Williams, R.E. and Krull, U.J., Towards a homogeneous fluorescence assay for a herbicide: characterization of the interactions of fusilade, bromomethylmethoxy coumarin derivatized fusilade, and anti-fusilade IgG antibody, 336 (1996) 157

Brereton, R.G., see Zissis, K.D., 384 (1999) 71

Breton, P., see Salvador, A., 359 (1998) 57

Brett, A.M.O., see Brett, C.M.A., 322 (1996) 151

Brett, C.M., Inzelt, G. and Kertesz, V., Poly(methylene blue) modified electrode sensor for haemoglobin, 385 (1999) 119

Brett, C.M., see Fungaro, D.A., 385 (1999) 257

Brett, C.M.A., Brett, A.M.O. and Tugulea, L., Anodic stripping voltammetry of trace metals by batch injection analysis, 322 (1996) 151

Brett, C.M.A., Garcia, M.B.Q. and Lima, J.L.F.C., On the suppression of zinc-copper interactions in square wave anodic stripping voltammetry in flowing solution by addition of gallium ions, 339 (1997) 167

Breuer, D., see Oepkemeier, S., 393 (1999) 103

Brezmes, J., Ferreras, B., Llobet, E., Vilanova, X. and Correig, X., Neural network based electronic nose for the classification of aromatic species, 348 (1997) 503

Bridges, J., see Thorburn Burns, D., 375 (1998) 255

Brienza, S.M.B., Sartini, R.P., Neto, J.A.G. and Zagatto, E.A.G., Crystal seeding in flow-injection turbidimetry: determination of total sulfur in plants, 308 (1995) 269

Brienza, S.M.B., see Martelli, P.B., 317 (1995) 239

Brienza, S.M.B., see Silva, E.C., 319 (1996) 153

Brigand, P., see Salvador, A., 359 (1998) 57

Bright, F.V., see Jordan, J.D., 332 (1996) 83

Brillard, L., see Trubert, D., 332 (1996) 257

Brillard, L., see Trubert, D., 374 (1998) 149

Brinkman, U.A., see Emteborg (b. Stigbrand), M., 357 (1997) 111

Brinkman, U.A., see Kok, S.J., 360 (1998) 109

Brinkman, U.A.T., see Kok, S.J., 303 (1995) 3

Brinkman, U.A.T., see Mank, A.J.G., 315 (1995) 209

Brinkman, U.A.T., see Mank, A.J.G., 323 (1996) 1

Brinkman, U.A.T., see Somsen, G.W., 349 (1997) 189

Brinkman, U.A.T., see Steen, R.J.C.A., 353 (1997) 153

Brinkman, U.A.T., see Steijger, O.M., 320 (1996) 99

Brinkman, U.A.T., see van de Merbel, N.C., 303 (1995) 175

Brinkman, U.A.T., see van de Nesse, R.J., 309 (1995) 135

Brinkman, U.A.T., see Zegers, B.N., 304 (1995) 47

Brinkman, U.A.Th., see de Beer, T., 390 (1999) 55

Brinkman, U.A.Th., see Kok, S.J., 389 (1999) 77

Briñón, M.C., see Dabbene, V.G., 318 (1996) 221

Brito, V.O. and Raimundo Jr., I.M., Simultaneous multiple injection in monosegmented flow analysis, 371 (1998) 317

Brittain, A.H., see Young, D., 381 (1999) 69

Britz, D., see Andersen, N.P.R., 329 (1996) 253

Britz, H.E., see van Staden, J.F., 351 (1997) 281

Bro, R., see Smilde, A.K., 398 (1999) 237

Broadhurst, D., Goodacre, R., Jones, A., Rowland, J.J. and Kell, D.B., Genetic algorithms as a method for variable selection in multiple linear regression and partial least squares regression, with applications to pyrolysis mass spectrometry, 348 (1997) 71

Brocas, J., see Herne, R., 364 (1998) 131

Brodbelt, J.S., see Bauerle, G.F., 317 (1995) 137

Brodbelt, J.S., see Felix, T., 371 (1998) 195

Broekaert, J.A.C., see Bittner, M., 364 (1998) 31

Broekaert, J.A.C., see Gerbersmann, C., 350 (1997) 273

Broekaert, J.A.C., see Luge, S., 332 (1996) 193

Brokenshire, J., see Przybylko, A.R.M., 311 (1995) 77

Broniszewska, B., see Magoński, J., 356 (1997) 93

Bronk, K.S., see Ferguson, J.A., 340 (1997) 123

Brossier, P., see Bordes, A.L., 356 (1997) 195

Brossier, P., see Le Gal La Salle, A., 311 (1995) 301

Broussard, S., see Mouvet, C., 311 (1995) 331

Brovko, A.A., see Sergeyeva, T.A., 392 (1999) 105

Brown, C.W., see Lin, J., 349 (1997) 263

Brown, J.K., see Burns, D. Thorburn, 362 (1998) 171

Brown, M., see Chau, Y.K., 304 (1995) 85

Brown, M., see Chau, Y.K., 338 (1997) 51

Brown, N.L., see Corbisier, P., 387 (1999) 235

Brown, R.B., see Dong, L., 321 (1996) 173

Brown, R.B., see Poplawski, M.E., 355 (1997) 249

Brown, R.S. and Luong, J.H.T., A regenerable pseudo-reagentless glucose biosensor based on Nafion polymer and 1,1'-dimethylferricinium mediator, 310 (1995) 419

Brown, R.S., see Brennan, J.D., 336 (1996) 157

Brownlee, R.T., see Coo, L.d., 386 (1999) 137

Bru, N., see Salvador, A., 359 (1998) 57

Bruce, D.A., see Bartlett, M.G., 346 (1997) 223

Brug, G., see Omanović, D., 339 (1997) 147

Bruhn, C.G., Ambiado, F.E., Cid, H.J., Woerner, R., Tapia, J. and Garcia, R., Analytical evaluation of a tungsten coil atomizer for cadmium, lead, chromium, manganese, nickel and cobalt determination by electrothermal atomic absorption spectrometry, 306 (1995) 183

Bruland, K.W., see Miller, L.A., 343 (1997) 161

Bruland, K.W., see Roitz, J.S., 344 (1997) 175

Brumas, V., see Tessier, L., 347 (1997) 207

Brunette, J.P., see Martin, M., 373 (1998) 161

Brunetto, M.R., see Burguera, J.L., 308 (1995) 349

Brunetto, M.R., see Gallignani, M., 369 (1998) 57

Brunetto, R., see Burguera, M., 308 (1995) 339

Brunink, J.A.J., Di Natale, C., Bungaro, F., Davide, F.A.M., D'Amico, A., Paolesse, R., Boschi, T., Faccio, M. and Ferri, G., The application of metalloporphyrins as coating material for quartz microbalance-based chemical sensors, 325 (1996) 53

Brunori, C., see Mester, Z., 395 (1999) 157

Bruns, R.E., see Reis, C., 369 (1998) 269

Bruntlett, C.S., see Jayaratna, H.G., 332 (1996) 165

Bruzzoniti, M.C., Mentasti, E. and Sarzanini, C., Determination of lanthanides by ion chromatography. Separation and retention mechanism, 353 (1997) 239

Bruzzoniti, M.C., Mentasti, E. and Sarzanini, C., Simultaneous determination of inorganic anions and metal ions by suppressed ion chromatography, 382 (1999) 291

Bruzzoniti, M.C., Mentasti, E., Sarzanini, C., Braglia, M., Cocito, G. and Kraus, J., Determination of rare earth elements by ion chromatography. Separation procedure optimization, 322 (1996) 49

Bruzzoniti, M.C., see Abollino, O., 375 (1998) 293

Bruzzoniti, M.C., see Abollino, O., 375 (1998) 299

Bryan, N.D., see Birkett, J.W., 362 (1998) 299

Bryan, N.D., see Jones, M.N., 314 (1995) 149

Bryce, D.W., Izquierdo, A. and de Castro, M.D.L., Continuous microwave assisted pervaporation/atomic fluorescence detection: An approach for speciation in solid samples, 324 (1996) 69

Bryce, D.W., Izquierdo, A. and Luque de Castro, M.D., Flowinjection anodic stripping voltammetry at a gold electrode for selenium(IV) determination, 308 (1995) 96

Brynn Hibbert, D., see Trojanowicz, M., 366 (1998) 23

Brynn Hibbert, D., see Trojanowicz, M., 370 (1998) 267

Brynn Hibbert, D., see Yang, X., 372 (1998) 387

Brzozka, Z., see Lugtenberg, R.J.W., 310 (1995) 263

Brzózka, Z., see Wróblewski, W., 326 (1996) 163

Bubendorf, A., see Huber, W., 393 (1999) 213

Buchacher, A., see Pock, K., 372 (1998) 219

Bucholtz, F., see Ewing, K.J., 340 (1997) 227

Buck, R.P., see Cosofret, V.V., 314 (1995) 1

Buck, R.P., see Mădăras, M.B., 319 (1996) 335

Buck, R.P., see Marzouk, S.A., 363 (1998) 57

Buck, R.P., see Nagy, G., 377 (1998) 1

Buck, R.P., see Renneberg, R., 325 (1996) 161

Buck, S., Stein, K. and Schwedt, G., Use of a peroxidase reactor in flow injection analysis for the determination of chloramine and the inhibition kinetics, 390 (1999) 141

Bückmann, A.F., see Katz, E., 385 (1999) 45

Budič, B., see Klemenc, S., 389 (1999) 141

Budnikov, G.K., see Medyantseva, E.P., 347 (1997) 71

Budnikov, H.C., see Evtugyn, G.A., 385 (1999) 13

Budzinski, H., see Matsuzawa, S., 312 (1995) 165

Buffle, J., see Belmont, C., 329 (1996) 203

Buffle, J., see Davison, W., 377 (1998) 193

Buffle, J., see Parthasarathy, N., 350 (1997) 183

Buffle, J., see Town, R.M., 302 (1995) 1

Bühlmann, P., see Amemiya, S., 341 (1997) 129

Bühlmann, P., see Amemiya, S., 351 (1997) 407

Bühlmann, P., see Nishizawa, S., 358 (1998) 35

Bujard, F., see Town, R.M., 302 (1995) 1
Bukowsky, H., Uhlemann, E. and Kläui, W., Extraction of alkali metal, magnesium and calcium ions with cyclopentadienyltris(-

diethylphosphito-P) cobaltate(-1), 319 (1996) 271Bulatov, V., Gridin, V.V., Polyak, F. and Schechter, I., Application of pulsed laser methods to in situ probing of highway originated

pollutants, 343 (1997) 93

Bulatov, V., see Litani-Barzilai, I., 339 (1997) 193

Bulatov, V., see Sluszny, C., 367 (1998) 1

Büldt, A., see Kempter, C., 388 (1999) 181

Bulhões, L.O.S., see Faria, R.C., 377 (1998) 21

Bulhões, L.O.S., see Lindino, C.A., 334 (1996) 317

Bulska, E., see Garboś, S., 342 (1997) 167

Bulska, E., Walcerz, M., Jedral, W. and Hulanicki, A., On-line preconcentration of lead and cadmium for flame atomic absorption spectrometry using a flow-through electrochemical microcell, 357 (1997) 133

Bult, A., see Rongen, H.A.H., 306 (1995) 333

Bult, A., see van Os, P.J.H.J., 305 (1995) 18

Bult, A., see van Os, P.J.H.J., 335 (1996) 209

Bunaciu, A.A., Grasu, A. and Aboul-Enein, H.Y., Pharmaceutical applications of a flurbiprofen sensor, 311 (1995) 193 Bund, A. and Schwitzgebel, G., Signal oscillations of a piezoelectric quartz crystal in liquids caused by compressional waves, 364 (1998) 189

Bungaro, F., see Brunink, J.A.J., 325 (1996) 53

Bunin, V.D., see Ignatov, O.V., 347 (1997) 241

Bunker, C.E., see Ya-Ping, S., 319 (1996) 379

Burenko, T., see Filanovsky, B., 364 (1998) 181

Burestedt, E., see Lutz, M., 305 (1995) 8

Burfeind, J., Weigel, B., Kretzmer, G., Schügerl, K., Huwig, A. and Giffhorn, F., Determination of the concentration of higher alcohols with enzyme coupled flow-injection analysis in model systems. 322 (1996) 131

Burford, M.D., see Brauer, R.D., 349 (1997) 239

Burford, M.D., see Özel, M.Z., 346 (1997) 73

Burg, P., Selves, J.-L. and Colin, J.P., Numerical simulation of crude oil behaviour from chromatographic data, 317 (1995) 107

Burgot, G., Auffret, F. and Burgot, J.-L., Determination of acetaminophen by thermometric titrimetry, 343 (1997) 125

Burgot, J.-L., see Burgot, G., 343 (1997) 125

Burguera, J.L., Burguera, M. and Rondon, C.E., Automatic determination of iron in geothermal fluids containing high dissolved sulfur-compounds using flow injection electrothermal atomic absorption spectrometry with an on-line microwave radiation precipitation—dissolution system, 366 (1998) 295

Burguera, J.L., Burguera, M., Carrero, P., Rivas, C., Gallignani, M. and Brunetto, M.R., Determination of iron and zinc in adipose tissue by on-line microwave-assisted mineralization and flow-injection graphite furnace atomic absorption spectrometry, 308 (1995) 349

Burguera, J.L., see Burguera, M., 308 (1995) 339

Burguera, J.L., see Burguera, M., 366 (1998) 63

Burguera, J.L., see Gallignani, M., 369 (1998) 57

Burguera, M. and Burguera, J.L., Microwave-assisted sample decomposition in flow analysis, 366 (1998) 63

Burguera, M., Burguera, J.L., Rivas, C., Carrero, P., Brunetto, R. and Gallignani, M., Time-based device used for the determination of tin by hydride generation flow injection atomic absorption techniques, 308 (1995) 339

Burguera, M., see Burguera, J.L., 308 (1995) 349

Burguera, M., see Burguera, J.L., 366 (1998) 295

Burguera, M., see Gallignani, M., 369 (1998) 57

Burns, D. Thorburn and Dangolle, C.D.F., Spectrophotometric determination of chromium(VI) by extraction of the dichromate anion into propylene carbonate, 356 (1997) 145

Burns, D. Thorburn, Swiss contributions to chemistry: five hundred years of progress, from alchemy to a modern science, 393 (1998)

Burns, D. Thorburn, Brown, J.K., Dinsmore, A. and Harvey, K.K., Base-activated latent fingerprints fumed with a cyanoacrylate monomer. A quantitative study using Fourier-transform infra-red spectroscopy, 362 (1998) 171

Burns, D.H., see Leonardi, L., 348 (1997) 543

Burns, D.H., see Long, W.F., 348 (1997) 553

Burns, D.M. and Johnson, N.L., Metrology of fluorescent retroreflective materials and its relationship to their daytime visibility, 380 (1999) 211 Burns, D.T. and Dangolle, C.D.P., Spectrophotometric determination of bismuth in pharmaceutical samples by extraction of the tetraiodobismuthate(III) anion into propylene carbonate, 337 (1997) 113

Burns, D.T. and Dunford, M.D., Spectrophotometric determination of chromium(VI) by extraction of protriptylinium dichromate, 319 (1996) 205

Burns, D.T. and Dunford, M.D., The spectrophotometric determination of bismuth after extraction of protriptylinium tetraiodobismuthate(III), 334 (1996) 209

Burns, D.T. and Lewis, R.J., Analysis and characterisation of nitroglycerine-based explosives by gas chromatography-mass spectrometry, 307 (1995) 89

Burns, D.T. and Lewis, R.J., Investigation into variations in the isomer content within the nitroaromatic component in nitroglycerine-based explosives by gas chromatography with flame ionisation detection, 309 (1995) 189

Burns, D.T., Chimpalee, N. and Harriott, M., Applications of a slotted tube atom trap and flame atomic absorption spectrometry: determination of bismuth in copper-based alloys with and without hydride generation, 311 (1995) 93

Burns, D.T., El-Shahawi, M.S., Kerrigan, M.J. and Smyth, P.M.T., Spectrophotometric determination of rhenium as perrhenate by extraction with amiloride hydrochloride, 322 (1996) 107

Burns, D.T., Lewis, R.J. and Doolan, K., Identification of laurylamine acetate in water gel explosives by electrospray/mass spectrometry, 349 (1997) 333

Burns, D.T., Lewis, R.J. and Stevenson, P., Determination of 3,4-methylenedioxyamphetamine analogues ("ecstasy") by proton nuclear magnetic resonance spectrometry, 339 (1997) 259

Burns, D.T., see Chimpalee, N., 304 (1995) 97

Burns, D.T., see Chimpalee, N., 329 (1996) 315

Burns, D.T., see Chimpalee, N., 331 (1996) 253

Burstein, C., see Casimiri, V., 361 (1998) 45

Burton, S.G., see Russell, I.M., 389 (1999) 161

Busch, K.L., see Bartlett, M.G., 346 (1997) 223

Busch, M. and Seubert, A., Influence of column temperature on the ion chromatographic separation of aluminum species, 399 (1999) 223

Busquets, M.A., see Haro, I., 303 (1995) 57

Bustamante Rangel, M., see Delgado Zamarreño, M.M., 386 (1999)

Bustin, D., Mesároš, Š., Tomčík, P., Rievaj, M. and Tvarožek, V., Application of redox cycling enhanced current at an interdigitated array electrode for iron-trace determination in ultrapure spectral carbon, 305 (1995) 121

Bustin, D., see Mesároš, Š., 339 (1997) 265

Bustin, D., see Tomčík, P., 374 (1998) 283

Butí, S., see Barbosa, J., 389 (1999) 31

Butcher, D.J., see Fender, M.A., 315 (1995) 167

Butcher, J.A., see Tandler, P.J., 312 (1995) 231

Buttler, T., Lidén, H., Jönsson, J.Å., Gorton, L., Marko-Varga, G. and Jeppsson, H., Evaluation of detection and sample clean-up techniques for on- and off-line fermentation monitoring systems, 324 (1996) 103

Buttler, T., see Tessema, M., 349 (1997) 179

Buttler, T., see Torto, N., 313 (1995) 15

Buttner, W.J., Findlay, M., Vickers, W., Davis, W.M., Cespedes, E.R., Cooper, S. and Adams, J.W., In situ detection of trinitrotoluene and other nitrated explosives in soils, 341 (1997) 63

Buydens, L., see Wienke, D., 317 (1995) 1

Buydens, L.M.C., see Dane, A.D., 351 (1997) 359

Buydens, L.M.C., see de Groot, P.J., 392 (1999) 67

Buydens, L.M.C., see Faber, N.M., 304 (1995) 257

Buydens, L.M.C., see Faber, N.M., 304 (1995) 273

Buydens, L.M.C., see van Kampen, A.H.C., 344 (1997) 1

Buydens, L.M.C., see Wehrens, R., 388 (1999) 265

Buydens, L.M.C., see Wehrens, R., 400 (1999) 413

Byrne, A.R., see Šlejkovec, Z., 358 (1998) 51

Byrne, A.R., see Šlejkovec, Z., 380 (1999) 63

Byrne, R.H., see Waterbury, R.D., 357 (1997) 99

Byrnes, I., see Parab, S., 359 (1998) 157

## C

Cabalín, L.M. and Laserna, J.J., Fast spatially resolved surfaceenhanced Raman spectrometry on a silver coated filter paper using charge-coupled device detection, 310 (1995) 337

Cabalín, L.M., Rupérez, A. and Laserna, J.J., Flow-injection analysis and liquid chromatography: surface-enhanced Raman spectrometry detection by using a windowless flow cell, 318 (1996) 203.

Cabañas, M., see Yong, C., 314 (1995) 183

Cabanás-Espejo, J.M., see Jiménez-Carmona, M.M., 395 (1999) 113

Cabanillas, A.G., Diaz, T.G., Espinosa-Mansilla, A., López-de-Alba, P.L. and Lopez, F.S., Abilities of differentiation and partial least squares methods in the analysis by differential pulse polarography Simultaneous determination of furazolidone and furaltadone, 302 (1995) 9

Cabaniss, S.E., see Sutheimer, S.H., 303 (1995) 211

Cabaniss, S.E., see Sutheimer, S.H., 304 (1995) 187

Cabero, C., Saurina, J. and Hernández-Cassou, S., Flow-injection spectrophotometric determination of cyclamate in sweetener products with sodium 1,2-naphthoquinone-4-sulfonate, 381 (1999) 307

Cabon, J.-Y., see Le Garrec, H., 350 (1997) 171

Cabon, J.Y., see Le Garrec, H., 368 (1998) 59

Caborn, J., see Wigley, F., 380 (1999) 73

Cabrera-Martin, A., see Martinez-Izquierdo, M.E., 325 (1996) 81

Cabrol-Bass, D., see Cleva, C., 348 (1997) 255

Cabrol-Bass, D., see Eghbaldar, A., 359 (1998) 283

Cachet, C., see Cleva, C., 348 (1997) 255

Čadež, S., see Vedrina-Dragojević, I., 355 (1997) 151

Cadogan, A., see Grady, T., 336 (1996) 1

Cagnini, A., see Del Carlo, M., 342 (1997) 189

Cagnini, A., see Palchetti, I., 337 (1997) 315

Cai, B. and Li, J., Evaluation of trifluoroacetic acid as an ion-pair reagent in the separation of small ionizable molecules by reversed-phase liquid chromatography, 399 (1999) 249

Cai, C.-X. and Xue, K.-H., Electrocatalysis of NADH oxidation with electropolymerized films of nile blue A, 343 (1997) 69

Cai, W.J., see Zhao, P., 395 (1999) 285

Cai, W.P., see Chen, M., 388 (1999) 11

Cai, X., Ogorevc, B., Benfenati, E., Kalcher, K., Novič, M. and Grabec, I., Batch square-wave voltammetric and flow-injection amperometric determination of trace amounts of bromofenoxim, 310 (1995) 153

Cai, X., Rivas, G., Shirashi, H., Farias, P., Wang, J., Tomschik, M., Jelen, F. and Paleček, E., Electrochemical analysis of formation of polynucleotide complexes in solution and at electrode surfaces, 344 (1997) 65

Cai, X., see Ogorevc, B., 305 (1995) 176

Cai, X., see Wang, J., 332 (1996) 139

Cai, X., see Wang, J., 337 (1997) 41

Cai, X., see Wang, J., 347 (1997) 1

Cai, X., see Wang, J., 349 (1997) 77

Cai, Z., Gross, M.L. and Spalding, R.F., Determination of didealkylatrazine in water by graphitized carbon black extraction followed by gas chromatography-high resolution mass spectrometry, 304 (1995) 67

Cailin, X., see Aimin, T., 341 (1997) 297

Caixia, H., Hua, C. and Guiwen, Z., The determination of chlorogenic acid in cigarettes by inhibited chemiluminescence analysis, 351 (1997) 241

Cakała, M., Mazerska, Z., Donten, M. and Stojek, Z., Electroanalytical and acid-base properties of imidazoacridinone, an antitumor drug (C-1311), 379 (1999) 209

Calatayud, J. Martínez, see Gil Torró, I., 366 (1998) 241

Calatayud, J. Martínez, see Icardo, M. Catalá, 398 (1999) 311

Calatayud, J.M., see Kojło, A., 308 (1995) 334

Calatayud, J.M., see Rivas, G.A., 326 (1996) 23

Calatayud, J.M., see Romero, A.M., 308 (1995) 451

Calavia, E., see Agui, M.L., 305 (1995) 324

Callao, M.P., see Rius, A., 316 (1995) 27

Callao, M.P., see Rius, A., 337 (1997) 287

Calokerinos, A.C., see Mihalatos, A.M., 303 (1995) 127

Calokerinos, A.C., see Palilis, L.P., 333 (1996) 267

Calokerinos, A.C., see Zhang, X.R., 303 (1995) 121

Calokerinos, A.C., see Zhang, X.R., 303 (1995) 137

Calvente, J.J. and Aparicio, R., A fuzzy filter for removing interferences among membership grade functions An application to pre-treatment of data in olive oil authentication, 312 (1995) 281

Calvo, A.M., Terrón, M.C., Fidalgo, M.L., Pelayo, J.M., Galletti, G.C. and González, A.E., Pyrolysis-gas chromatography-mass spectrometry characterization of wheat straw alkaline-cooking effluents after biological treatment with the fungi Phanerochaete chrysosporium and Ganoderma australe, 309 (1995) 145

Calvo, C.P., Barrera, P.B. and Barrera, A.B., Determination of molybdenum in human urine by electrothermal atomization atomic absorption spectrometry, 310 (1995) 189

Camara, C., see Gómez, M.M., 374 (1998) 241

Cámara, C., see Martín-Esteban, A., 304 (1995) 121

Cámara, C., see Palacios, M.A., 340 (1997) 209

Cámara, C., see Pérez-Corona, T., 345 (1997) 249

Cameron, B.D., see McShane, M.J., 388 (1999) 251

Cammann, K., see Conrath, N., 309 (1995) 47

Cammann, K., see Edel, H., 310 (1995) 181

Cammann, K., see Högg, G., 335 (1996) 103

Cammann, K., see Jülicher, P., 315 (1995) 279

Cammann, K., see Renneberg, R., 325 (1996) 161

Cammann, K., see Schwake, A., 393 (1999) 19

Cammann, K., see Wienke, D., 317 (1995) 1

Cammann, K., see Zuther, F., 313 (1995) 83

Camões, M. Filomena G.F.C., see Bettencourt da Silva, R.J., 393

Campaña, A.M.G., Rodríguez, L.C., González, A.L., Barrero, F.A. and Ceba, M.R., Sequential response surface methodology for multioptimization in analytical chemistry with three-variable Doehlert designs, 348 (1997) 237

Campanella, L., Cipriani, P., Martini, T.M., Sammartino, M.P. and Tomassetti, M., New enzyme sensor for sulfite analysis in sea and river water samples, 305 (1995) 32

Campanella, L., D'Orazio, D., Petronio, B.M. and Pietrantonio, E., Proposal for a metal speciation study in sediments, 309 (1995) 387

Campanella, L., De Luca, S., Sammartino, M.P. and Tomassetti, M., A new organic phase enzyme electrode for the analysis of organophosphorus pesticides and carbamates, 385 (1999) 59

Campanella, L., Favero, G., Sammartino, M.P. and Tomassetti, M., Analysis of several real matrices using new mono-, bi-enzymatic, or inhibition organic phase enzyme electrodes, 393 (1999) 109

Campiglia, A.D. and Vo-Dinh, T., Rapid screening method for cocaine and benzoylecgonine in saliva samples, 372 (1998) 349

Campiglia, A.D., Hueber, D.M., Moreau, F. and Vo-Dinh, T., Phosphorescence imaging system using an acousto-optic tunable filter and a charge-coupled device, 346 (1997) 361

Campiglia, A.D., Moreau, F., Hueber, D.M. and Vo-Dinh, T., Phosphorescence imaging system using an acousto-optic filterbased charge coupled device, 351 (1997) 229

Campiglia, A.D., see Arruda, A.F., 386 (1999) 271

Campiglia, A.D., see Arruda, A.F., 396 (1999) 263

Campiglia, A.D., see Aucélio, R.Q., 309 (1995) 345

Campillo, N., see García, I.L., 308 (1995) 67

Campillo, N., see García, I.L., 308 (1995) 85

Campillo, N., see Viñas, P., 318 (1996) 319

Campillo, N., see Viñas, P., 356 (1997) 267

Campillo, N., Viñas, P., López-García, I. and Hernández-Córdoba, M., Rapid determination of lead and cadmium in biological fluids by electrothermal atomic absorption spectrometry using Zeeman correction, 390 (1999) 207

Campins-Falcó, P., Herráez-Hernández, R., Sevillano-Cabeza, A. and Trümpler, I., Derivatization of amines in solid-phase extraction supports with 9-fluorenylmethyl chloroformate for liquid chromatography, 344 (1997) 125

Campins-Falcó, P., Sevillano-Cabeza, A., Gallo-Martinez, L. and Bosch-Reig, F., A comparison of various calibration techniques applied to the ninhydrin-cefoxitin determination, 334 (1996) 199

Campins-Falcó, P., Verdú-Andrés, J. and Bosch-Reig, F., H-Point standard additions method for resolution of binary mixtures with simultaneous addition of both analytes, 315 (1995) 267

Campins-Falcó, P., Verdú-Andrés, J. and Bosch-Reig, F., Evaluation and elimination of the blank bias error using the H-point standard additions method (HPSAM) in the simultaneous spectrophotometric determination of two analytes, 348 (1997) 39

Campins-Falcó, P., Verdú-Andrés, J., Bosch-Reig, F. and Molins-Legua, C., Generalized H-point standard additions method for analyte determinations in unknown samples, 302 (1995) 323 Campisi, B., Dugo, G., Cotroneo, A. and Favretto, L., Chemometric analysis and extraction processes of mandarin essential oils, 312 (1995) 199

Campisi, B., see Favretto, L., 344 (1997) 251

Campíns-Falcó, P., Bosch-Reig, F. and Blasco-Gómez, F., Standard addition method in FIA. Comparison between different assemblies, 379 (1999) 89

Campíns-Falcó, P., see Gallo-Martinez, L., 370 (1998) 115

Campins-Falcó, P., see Molins-Legua, C., 378 (1999) 83

Campos, E., Barahona, E., Lachica, M. and Mingorance, M.D., A study of the analytical parameters important for the sequential extraction procedure using microwave heating for Pb, Zn and Cu in calcareous soils, 369 (1998) 235

Campos, J.T.S., see Lessi, P., 327 (1996) 183

Campos, L., see Morales, M.M., 394 (1999) 109

Camps, F., see Ballesteros, B., 347 (1997) 139

Camps, F., see Gascón, J., 347 (1997) 149

Cañada Cañada, F., see Espinosa-Mansilla, A., 376 (1998) 365

Canals, A., see Cuesta, A., 372 (1998) 399

Candelone, J.P., see Chisholm, W., 311 (1995) 141

Candelone, J.-P., see Chisholm, W., 347 (1997) 351

Candolfi, A., Massart, D.L. and Heuerding, S., Investigation of sources of variance which contribute to NIR-spectroscopic measurement of pharmaceutical formulations, 345 (1997) 185

Cañizares, M.P., Tena, M.T. and de Castro, M.D.L., On line coupling of a liquid-liquid extraction flow-reversal system to a spectrophotometric flow-through sensor for the determination of polyphenols in olive oil, 323 (1996) 55

Cañizares, P. and de Castro, L., On-line coupling of isolation/in situ concentration integrated with derivative synchronous spectrofluorimetry for the simultaneous determination of epinephrine and norepinephrine in urine, 317 (1995) 335

Cantini, M., see Libera, L.D., 352 (1997) 271

Cao, Q.E., see Zhao, Y., 388 (1999) 45

Cao, X., see Lin, C., 392 (1999) 291

Cao, X., see Yang, J., 363 (1998) 105

Cao, X.-W., see Liu, H.-L., 342 (1997) 223

Cao, Z., see Xiang, J.N., 384 (1999) 37

Capitán, F., Capitán-Vallvey, L.F., Fernández, M.D., de Orbe, I. and Avidad, R., Determination of colorant matters mixtures in foods by solid-phase spectrophotometry, 331 (1996) 141

Capitán-Vallvey, L.F., del Olmo, M., Avidad, R., Navalón, A., de Orbe, I. and Vilchez, J.L., Close overlapping discrimination of polycyclic aromatic hydrocarbons by synchronous scanning at variable-angle solid-phase spectrofluorimetry, 302 (1995) 103

Capitán-Vallvey, L.F., see Capitán, F., 331 (1996) 141

Capitán-Vallvey, L.F., see Ortega-Barrales, P., 353 (1997) 115

Carbó, M.T.D., Reig, F.B., Adelantado, J.V.G. and Martínez, V.P., Fourier transform infrared spectroscopy and the analytical study of works of art for purposes of diagnosis and conservation, 330 (1996) 207

Carbonell, V., see de la Guardia, M., 308 (1995) 462

Carda-Broch, S., Esteve-Romero, J.S. and García-Alvarez-Coque, M.C., Chromatographic determination of diuretics in urine samples using hybrid micellar mobile phases with fluorimetric detection, 375 (1998) 143 Carda-Broch, S., García-Alvarez-Coque, M.C., Simó-Alfonso, E.F. and Esteve-Romero, J.S., Micellar liquid chromatographic determination of diuretics by diazotization and coupling with the Bratton-Marshall reagent, 353 (1997) 215

Carda-Broch, S., Torres-Lapasió, J.R. and García-Alvarez-Coque, M.C., Evaluation of several global resolution functions for liquid chromatography, 396 (1999) 61

Cárdenas, S., see Gambart, D., 366 (1998) 93

Carducci, C., see Mardones, C., 382 (1999) 23

Cardwell, T.J., see Sulistyarti, H., 390 (1999) 133

Cardwell, T.J., Cattrall, R.W., Cross, G.J., O'Connell, G.R., Petty, J.D. and Scollary, G.R., Determination of sulfuric acid in metallurgical process streams by discontinuous flow analysis, 308 (1995) 197

Cardwell, T.J., Santos, J.H. and Bond, A.M., Flow injection analysis of copper diethyldithiocarbamate in high resistance toluene media using a microelectrode detector, 340 (1997) 169

Cardwell, T.J., see Christophersen, M.J., 323 (1996) 39

Cardwell, T.J., see Coo, L.d., 360 (1998) 153

Cardwell, T.J., see Coo, L.d., 386 (1999) 137

Cardwell, T.J., see Coo, L.d., 392 (1999) 201

Cardwell, T.J., see Madden, J.E., 319 (1996) 127

Cardwell, T.J., see McKelvie, I.D., 316 (1995) 277

Cardwell, T.J., see Newcombe, D.T., 395 (1999) 27

Cardwell, T.J., see Shen, H., 367 (1998) 193

Cardwell, T.J., see Sulistyarti, H., 357 (1997) 103 Cardwell, T.J., see Wang, X.D., 368 (1998) 105

Careri, M., Mangia, A., Mori, G. and Musci, M., A new multivariate approach for the optimisation of the simultaneous distillation extraction technique for free fatty acids using a face centred cube experimental design: application to Parmigiano–Reggiano cheese, 386 (1999) 169

Carlos de Andrade, J., see Reis, C., 369 (1998) 269

Carlson, A.D., Hofer, J.D. and Riggin, R.M., Development of an optimized peptide map for recombinant activated human protein C by means of an experimental design strategy, 352 (1997) 221

Carlson, R.G., see Rose, M.J., 394 (1999) 299

Carlsson, K., Jacobsen, H.S., Lynggaard Jensen, A., Stenstrøm, T. and Karlberg, B., Micro-continuous flow system for wet chemical analysis, 354 (1997) 35

Carmo Vaz1, M., see Lima, J.F., 385 (1999) 437

Carmody, J.L., see Ditzler, M.A., 316 (1995) 391

Carnahan, J.W., see Akinbo, O.T., 390 (1999) 217

Carneiro, P.A., see Zanoni, M.V.B., 385 (1999) 385

Caroli, S., see Alimonti, A., 306 (1995) 35

Caroli, S., see Alimonti, A., 342 (1997) 75

Caroli, S., see Krachler, M., 363 (1998) 1

Caroli, S., see Posta, J., 325 (1996) 185 Carpena, J., see Pérez-Ruiz, T., 326 (1996) 41

Carpenter, N.G. and Pletcher, D., Amperometric method for the determination of nitrate in water, 317 (1995) 287

Carpignano, R., Marzona, M., Cattaneo, E. and Quaranta, S., QSAR study of inclusion complexes of heterocyclic compounds with βcyclodextrin, 348 (1997) 489

Carr, K.F., see Springsteen, A., 380 (1999) 155

Carr, P.W., see Jianwei, L., 334 (1996) 239

Carr, P.W., see Nawrocki, J., 327 (1996) 261

Carr, R.M., see Wring, S.A., 334 (1996) 225

Carra, R.M.G.-M., see Gil, E.P., 315 (1995) 69

Carrer, I., Cusmai, P., Zanzottera, E., Martinotti, W. and Realini, F., Application of photoacoustic spectrometry to flow-injection analysis, 308 (1995) 20

Carrera, F., León-Camacho, M., Pablos, F. and González, A.G., Authentication of green coffee varieties according to their sterolic profile, 370 (1998) 131

Carrero, P., see Burguera, J.L., 308 (1995) 349

Carrero, P., see Burguera, M., 308 (1995) 339

Carretero, A.S., Blanco, C.C. and Gutiérrez, A.F., Application of variable-angle synchronous phosphorimetry in a microemulsion medium for the simultaneous determination of three polyaromatic hydrocarbons, 329 (1996) 165

Carretero, A.S., Blanco, C.C. and Gutiérrez, A.F., Simultaneous microemulsion room temperature phosphorimetric determination of five polycyclic aromatic hydrocarbons by variable-angle synchronous scanning, 353 (1997) 337

Carretero, A.S., Blanco, C.C., Díaz, B.C. and Gutiérrez, A.F., An innovative way of obtaining room-temperature phosphorescence signals in solution, 361 (1998) 217

Carreto, M.L., Lunar, L., Rubio, S. and Pérez-Bendito, D., Simultaneous spectrophotometric determination of chlorpromazine, perphenazine and acetopromazine by use of the kinetic wavelength pair-method, 349 (1997) 33

Carreto, M.L., see Lunar, M.L., 337 (1997) 341

Carriger, M.H., see Lada, M.W., 307 (1995) 217

Carroll, J.A., Willard, D. and Lebrilla, C.B., Energetics of cross-ring cleavages and their relevance to the linkage determination of oligosaccharides, 307 (1995) 431

Carter, R., see Simeonsson, J.B., 397 (1999) 33

Carter, R.J., see Bond, A.M., 310 (1995) 109

Carter, R.M., see Minunni, M., 325 (1996) 169

Caruso, J.A., see Tomlinson, M.J., 322 (1996) 1

Carvalho, L.R.F., see Pires, M., 367 (1998) 223

Carvalho, L.R.F., Souza, S.R., Martinis, B.S. and Korn, M., Monitoring of the ultrasonic irradiation effect on the extraction of airborne particulate matter by ion chromatography, 317 (1995) 171

Casabó, J., Escriche, L., Pérez-Jiménez, C., Muñoz, J.A., Teixidor, F., Bausells, J. and Errachid, A., Application of a new phosphadithiamacrocycle to ClO<sup>-</sup><sub>4</sub>-selective CHEMFET and ion-selective electrode devices, 320 (1996) 63

Casabó, J., see Flor, T., 375 (1998) 127

Casabó, J., see Pérez-Jiménez, C., 371 (1998) 155

Casado, C.M., see Losada, J., 338 (1997) 191

Casal, V., Martin-Alvarez, P.J. and Herraiz, T., Comparative prediction of the retention behaviour of small peptides in several reversed-phase high-performance liquid chromatography columns by using partial least squares and multiple linear regression, 326 (1996) 77

Casale, E.S., see Thacker, J.D., 376 (1998) 61

Casarci, M., see Wenli, L., 362 (1998) 253

Casassas, E., Marqués, I. and Tauler, R., Study of acid-base properties of fulvic acids using fluorescence spectrometry and multivariate curve resolution methods, 310 (1995) 473

Casassas, E., see Díaz-Cruz, M.S., 382 (1999) 105

Casassas, E., see Grabarić, B.S., 325 (1996) 135

Casassas, E., see Grabarić, B.S., 341 (1997) 105

Casassas, E., see Grabarić, B.S., 363 (1998) 261 Casassas, E., see Grabarić, Z., 312 (1995) 27

Casassas, E., see Kudrev, A., 363 (1998) 119

Casassas, E., see Puigdomènech, A., 355 (1997) 181

Casella, I.G. and Marchese, R., Sulfite oxidation at a platinum glassy carbon electrode. Determination of sulfite by ion exclusion chromatography with amperometric detection, 311 (1995) 100

Casella, I.G., Platinum/glassy carbon electrode as detector for liquid chromatographic determination of hydroxyl-containing compounds, 311 (1995) 37

Casella, I.G., Cataldi, T.R.I., Guerrieri, A. and Desimoni, E., Copper dispersed into polyaniline films as an amperometric sensor in alkaline solutions of amino acids and polyhydric compounds, 335 (1996) 217

Casella, I.G., Gatta, M., Guascito, M.R. and Cataldi, T.R., Highlydispersed copper microparticles on the active gold substrate as an amperometric sensor for glucose, 357 (1997) 63

Casella, I.G., Guascito, M.R. and Cataldi, T.R., Electrocatalysis and amperometric detection of alditols and sugars at a gold-nickel composite electrode in anion-exchange chromatography, 398 (1999) 153

Casella, I.G., Guascito, M.R., Salvi, A.M. and Desimoni, E., Catalytic oxidation and flow detection of hydrazine compounds at a nafion/ruthenium(III) chemically modified electrode, 354 (1997) 333

Caseri de Luca, G., see de Azevedo Tumang, C., 374 (1998)

Casero, I., Sicilia, D., Rubio, S. and Pérez-Bendito, D., Analytical potential of mixed micelle-based methodology for the determination of ionic surfactants, 345 (1997) 75

Cash, P., Characterisation of bacterial proteomes by two-dimensional electrophoresis, 372 (1998) 121

Casimiri, V. and Burstein, C., Biosensor for L-lactate determination as an index of *E. coli* number in crude culture medium, 361

Casnati, A., see Lugtenberg, R.J.W., 310 (1995) 263

Cass, A.E.G., see Antiochia, R., 345 (1997) 17

Cassada, D.A., see Monson, S.J., 373 (1998) 153

Cassella, R.J., see de Jesus, D.S., 366 (1998) 263

Cassella, R.J., see Ferreira, S.L.C., 378 (1999) 287

Castañeda, G., see Berzas, J.J., 349 (1997) 303

Castilho, M., see Almeida, L.E., 375 (1998) 223

Castillo, J.R., see de Marcos, S., 343 (1997) 117

Castillo, J.R., see Sierra, J.F., 368 (1998) 97

Castillo, J.R., see Vidal, J.C., 385 (1999) 203

Castillo, J.R., see Vidal, J.C., 385 (1999) 213

Castillo, M., Domingues, R., Alpendurada, M.F. and Barceló, D., Persistence of selected pesticides and their phenolic transformation products in natural waters using off-line liquid solid extraction followed by liquid chromatographic techniques, 353 (1997) 133

Castrillejo, Y., see Vega, M., 310 (1995) 131

Cataldi, T.R., see Casella, I.G., 357 (1997) 63

Cataldi, T.R., see Casella, I.G., 398 (1999) 153

Cataldi, T.R.I. and Centonze, D., Nickel oxide dispersed in a graphite/poly(vinyl chloride) composite matrix for an electrocatalytic amperometric sensor of alditols in flow-injection analysis, 307 (1995) 43

Cataldi, T.R.I. and Centonze, D., Development of a carbon composite electrode made from polyethylene and graphite powder modified with copper(I) oxide, 326 (1996) 107

Cataldi, T.R.I., Centonze, D., Desimoni, E. and Forastiero, V., Electrocatalysis and amperometric detection of ethanol at ruthenium-based inorganic films with improved response stability, 310 (1995) 257

Cataldi, T.R.I., see Casella, I.G., 335 (1996) 217

Catasús, M., see Alpizar, J., 340 (1997) 149

Catasús, M., see Cladera, A., 350 (1997) 163

Cattana, R., see Giacomelli, L., 370 (1998) 79

Cattana, R.I., see Reta, M.R., 306 (1995) 81

Cattaneo, E., see Carpignano, R., 348 (1997) 489

Cattrall, R.W., see Argiropoulos, G., 360 (1998) 167

Cattrall, R.W., see Cardwell, T.J., 308 (1995) 197

Cattrall, R.W., see Coo, L.d., 360 (1998) 153

Cattrall, R.W., see Coo, L.d., 386 (1999) 137

Cattrall, R.W., see Coo, L.d., 392 (1999) 201

Cattrall, R.W., see Madden, J.E., 319 (1996) 127

Cattrall, R.W., see McKelvie, I.D., 316 (1995) 277

Cattrall, R.W., see Neshkova, M.T., 362 (1998) 221

Cattrall, R.W., see Newcombe, D.T., 395 (1999) 27

Cattrall, R.W., see Shen, H., 367 (1998) 193

Cattrall, R.W., see Wang, X.D., 368 (1998) 105

Cavalli, P., see Neuhauser, R.E., 346 (1997) 37

Cazallas, R., Fernández, L.A. and de Diego, A., Automated conductometry: robotic station for analytical titrations, 317 (1995) 127

Cícero do Nascimento, P., see Bohrer, D., 362 (1998) 163

Ceba, M.R., see Campaña, A.M.G., 348 (1997) 237

Ceba, M.R., see García Campaña, A.M., 329 (1996) 319

Ceccarini, A., see Fuoco, R., 346 (1997) 81

Ceccon, L., see Lo Coco, F., 306 (1995) 57

Ceccon, L., see Lo Coco, F., 386 (1999) 41

Cecília, J., see Galceran, J., 305 (1995) 273
Celestino Oliveira, C., Ayres Guidetti Zagatto, E., Araúdjo, A.N. and Costa Lima, J.L.F., Sample preparation in sequential injec-

tion analysis. Spectrophotometric determination of total phosphorus in food samples, 371 (1998) 57

Celik, A. and Henden, E., Application of molecular emission cavity analysis to the determination of tin in various samples based on hydride generation, 333 (1996) 295

Čelková, A., see Polakovičová, J., 320 (1996) 145

Centner, V., de Noord, O.E. and Massart, D.L., Detection of nonlinearity in multivariate calibration, 376 (1998) 153

Centner, V., Massart, D.L. and de Noord, O.E., Detection of inhomogeneities in sets of NIR spectra. 330 (1996) 1

Centonze, D., see Cataldi, T.R.I., 307 (1995) 43

Centonze, D., see Cataldi, T.R.I., 310 (1995) 257

Centonze, D., see Cataldi, T.R.I., 326 (1996) 107

Cepas, J., Silva, M. and Pérez-Bendito, D., Evaluation of peroxyoxalate chemiluminescence for the sensitive determination of hallucinogenic alkaloids, 314 (1995) 87 Cepria, G., see Wang, J., 330 (1996) 151

Cerdà, A., Oms, M.T., Forteza, R. and Cerdà, V., Evaluation of flow injection methods for ammonium determination in wastewater samples, 311 (1995) 165

Cerdà, A., Oms, M.T., Forteza, R. and Cerdà, V., Total nitrogen determination by flow injection using on-line microwaveassisted digestion, 351 (1997) 273

Cerdà, A., Oms, M.T., Forteza, R. and Cerdà, V., Sequential injection sandwich technique for the simultaneous determination of nitrate and nitrite, 371 (1998) 63

Cerdà, A., see Oms, M.T., 315 (1995) 321

Cerdà, A., see Oms, M.T., 318 (1996) 251

Cerdá, V., see Albertús, F., 355 (1997) 23

Cerdà, V., see Alpizar, J., 340 (1997) 149

Cerdà, V., see Bauzá de Mirabó, F.M., 355 (1997) 203

Cerdà, V., see Cerdà, A., 311 (1995) 165

Cerdà, V., see Cerdà, A., 351 (1997) 273

Cerdà, V., see Cerdà, A., 371 (1998) 63

Cerdà, V., see Cladera, A., 302 (1995) 297

Cerdà, V., see Cladera, A., 350 (1997) 163

Cerdà, V., see Estela, J.M., 310 (1995) 307

Cerda, V., see Muñoz, A., 350 (1997) 21

Cerdà, V., see Oms, M.T., 315 (1995) 321

Cerdà, V., see Oms, M.T., 318 (1996) 251

Cerdan, B., see Suard, C., 318 (1996) 261

Ceresa, A. and Pretsch, E., Determination of formal complex formation constants of various Pb<sup>2+</sup> ionophores in the sensor membrane phase, 395 (1999) 41

Cervera, M.L., see Sánchez-Dasi, M.J., 361 (1998) 253

Cespedes, E.R., see Buttner, W.J., 341 (1997) 63

Céspedes, F., see M.C.S. Magalhães, J., 355 (1997) 241

Céspedes, F., see Martorell, D., 337 (1997) 305

Céspedes, F., see Morales, A., 332 (1996) 131

Cespón-Romero, R.M., Yebra-Biurrun, M.C. and Bermejo-Barrera, M.P., Preconcentration and speciation of chromium by the determination of total chromium and chromium(III) in natural waters by flame atomic absorption spectrometry with a chelating ion-exchange flow injection system, 327 (1996) 37

Cespuglio, R., see Netchiporouk, L.I., 303 (1995) 275

Cesta, A.A., see Fernanda Giné, M., 366 (1998) 313

Ceulemans, M. and Adams, F.C., Evaluation of sample preparation methods for organotin speciation analysis in sediments - focus on monobutyltin extraction, 317 (1995) 161

Ceulemans, M., see Szpunar, J., 332 (1996) 225

Ceylan, O., see Mark, Jr., H.B., 385 (1999) 281

Chadha, S., see Gabor, G., 313 (1995) 131

Chai, C., see Li, C., 374 (1998) 93

Chaker, M., see Silva, P.R.M., 385 (1999) 249

Chakrabarti, C.L., see Mandal, R., 395 (1999) 309

Chakrabarti, C.L., see Mandal, R., 395 (1999) 323

Chalk, S.J. and Tyson, J.F., Determination of chloride by flow injection spectrophotometry with membrane reagent introduction, 366 (1998) 147

Chamberlain, P., see Howard, A.G., 377 (1998) 95

Chambers, J.Q., see Scaboo, K.M., 380 (1999) 47

Champagne, G.Y., see Silva, P.R.M., 385 (1999) 249

Chan, H.S.O., see Zhou, X.C., 345 (1997) 29

Chan, J.Y., see Chan, S.H., 379 (1999) 275

Chan, K.C., see Liu, H., 400 (1999) 181

Chan, R.C.K., see Lee, A.W.M., 339 (1997) 123

Chan, S.H. and Chan, J.Y., Application of reverse microdialysis in the evaluation of neural regulation of cardiovascular functions, 379 (1999) 275

Chan, W.F., see Lee, A.W.M., 339 (1997) 123

Chandravanshi, B.S., see Alemu, H., 368 (1998) 165

Chandravanshi, B.S., see Megersa, N., 311 (1995) 183

Chang, A.-C., see Hsieh, Y.-Z., 342 (1997) 41

Chang, C.-C. and Jiang, S.-J., Determination of Hg and Bi by electrothermal vaporization inductively coupled plasma mass spectrometry using vapor generation with in situ preconcentration in a platinum-coated graphite furnace, 353 (1997) 173

Chang, C.L., see Wang, S.P., 377 (1998) 85

Chang, C.Y., see Wang, C.F., 392 (1999) 299

Chang, H., see Zhang, W., 350 (1997) 59

Chang, H.-C., Yang, C.-C. and Yeh, T.-M., Detection of lipopolysaccharide binding peptides by the use of a lipopolysaccharidecoated piezoelectric crystal biosensor, 340 (1997) 49

Chang, H.L., Jung, S.K., Moo, Y.S. and Won, L., A chelating resin containing 4-(2-thiazolylazo)resorcinol as the functional group Synthesis and sorption behaviour for trace metal ions, 339 (1997) 303

Chang, H.L., Moo, Y.S., Kih, S.J., Tae, Y.E. and Won, L., A chelating resin containing 4-(2-thiazolylazo)resorcinol as the functional group. Chromatographic application to the preconcentration and separation of some trace metal ions including uranium, 351 (1997) 57

Chang, L.Y., Davison, W., Zhang, H. and Kelly, M., Performance characteristics for the measurement of Cs and Sr by diffusive gradients in thin films (DGT), 368 (1998) 243

Chang, M.S., see van Tonder, N., 380 (1999) 285

Chang, P. and Shih, J.S., Preparation and application of cryptandcoated piezoelectric crystal gas-chromatographic detector, 360 (1998) 61

Chang, P. and Shih, J.S., Application of piezoelectric Ru(III)/ cryptand-coated quartz crystal gas chromatographic detector for olefins, 380 (1999) 55

Chang, S.M., see Choi, K.J., 386 (1999) 229

Chang, W., see Wang, X., 400 (1999) 135

Chang, W.B., see Hong, F., 373 (1998) 207

Chang, W.B., see Zhang, X.X., 392 (1999) 175

Chang, X., Su, Z., Yang, D., Gong, B., Pu, Q. and Li, S., Synthesis and efficiency of a spherical macroporous epoxy-imidazole complexing resin for preconcentrating trace noble metal ions, 354 (1997) 143

Chang, Y.K., see Min, J.C., 315 (1995) 311

Changqing, S., Qian, G., Jiubai, X. and Hongding, X., Determination of germanium(IV) by catalytic cathodic stripping voltammetry, 309 (1995) 89

Changqing, S., Yipeng, S., Xi, Z., Hongding, X. and Jiacong, S., Selective potentiometric determination of copper(II) ions by use of a molecular deposition film electrode based on water-soluble copper phthalocyanine, 312 (1995) 207

Changsong, L., see Hongzhi, X., 319 (1996) 239

Changyin, L., see Yuanjin, X., 312 (1995) 9

Changyin, L., see Yuanjin, X., 325 (1996) 65

Chang-Yu, H. and Lu, X., A new topological index for the Changchun Institute of Applied Chemistry <sup>13</sup>C NMR information system, 318 (1995) 117

Chaniotakis, N.A., K. Tsagatakis, J., Moschou, E.A., West, S.J. and Wen, X., Magnesium ion-selective electrode: optimization and flow injection analysis application, 356 (1997) 105

Chaniotakis, N.A., see Vamvakaki, M., 320 (1996) 53

Chao, Y.C. and Shih, J.S., Adsorption study of organic molecules on fullerene with piezoelectric crystal detection system, 374 (1998) 39

Chao, Y.Z., Ming, K.W., Lip, L.K. and Yeow, C.W., Orthogonal array design for the optimization of closed-vessel microwave digestion parameters for the determination of trace metals in sediments. 314 (1995) 121

Chapleau, M., see Boujtita, M., 319 (1996) 91

Chappell, A., see Abass, A.K., 373 (1998) 1

Chapuzet<sup>1</sup>, E., see Hubert, P., 391 (1999) 135

Charles, Y., see Motellier, S., 375 (1998) 243

Charpentier, L. and El Murr, N., Amperometric determination of cholesterol in serum with use of a renewable surface peroxidase electrode, 318 (1995) 89

Chassaigne, H. and Łobiński, R., Determination of cobalamins and cobinamides by microbore reversed-phase HPLC with spectrophotometric, ion-spray ionization MS and inductively coupled plasma MS detection, 359 (1998) 227

Chastain, M.J., see Eiteman, M.A., 338 (1997) 69

Chasteen, T.G., see Stalder, V., 303 (1995) 91

Chatterjee, A. and Shibata, Y., Determination of trimethylselenonium ion by flow injection hydride generation atomic absorption spectrometry, 398 (1999) 273

Chau, Y.K., Yang, F. and Brown, M., Supercritical fluid extraction of butyltin compounds from sediment, 304 (1995) 85

Chau, Y.K., Yang, F. and Brown, M., Evaluation of derivatization techniques for the analysis of organotin compounds in biological tissue, 338 (1997) 51

Chauhan, B.P.S., see Arruda, A.F., 396 (1999) 263

Chaumery, C.J., see Riso, R.D., 351 (1997) 83

Chavdarova, R., Nedeltcheva, T. and Vladimirova, L., Determination of non-stoichiometric oxygen in YBCO superconductors by coulometric titration, 353 (1997) 325

Checa, F., see López Fernández, J.M., 360 (1998) 215

Chee, G.J., Nomura, Y. and Karube, I., Biosensor for the estimation of low biochemical oxygen demand, 379 (1999) 185

Chee, G.J., Nomura, Y., Ikebukuro, K. and Karube, I., Development of highly sensitive BOD sensor and its evaluation using preozonation, 394 (1999) 65

Chen, C., see Zhu, L., 369 (1998) 205

Chen, C.H. and Brajter-Toth, A., A simple current transducer for ultramicroelectrode measurements at a wide range of time scales, 321 (1996) 209

Chen, C.H., see Wong, J.L., 349 (1997) 121

Chen, G., Cooks, R. Graham, Jha, S.K. and Green, M.M., Microstructure of alkoxy and alkyl substituted isocyanate copolymers determined by desorption chemical ionization mass spectrometry, 356 (1997) 149

Chen, G., see Chi, Y., 354 (1997) 365

Chen, G., see Liao, Y.P., 360 (1998) 209

Chen, G.N., Lin, R.E., Zhuang, H.S., Zhao, Z.F., Xu, X.Q. and Zhang, F., Study of electrogenerated chemiluminescence of N-(β-carboxyl-propionyl)luminol, 375 (1998) 269

Chen, G.-Z., see Yan, Y., 306 (1995) 307

Chen, H., Liu, J. and Mao, X., Coupling of flow injection wettingfilm extraction without segmentation and phase separation to flame atomic absorption spectrometry for the determination of trace copper in water samples, 370 (1998) 151

Chen, H., see Chi, Y., 354 (1997) 365

Chen, H., see Wang, E., 397 (1999) 287

Chen, H., see Zhang, J., 344 (1997) 291

Chen, H.-P., see Xu, J.-G., 302 (1995) 207

Chen, H.W. and Fang, Z.L., Combination of flow injection with capillary electrophoresis. Part 3. On-line sorption column preconcentration capillary electrophoresis system, 355 (1997)

Chen, H.W. and Fang, Z.L., Combination of flow injection with capillary electrophoresis. Part 4. Automated multicomponent monitoring of drug dissolution, 376 (1998) 209

Chen, H.W. and Fang, Z.L., Combination of flow injection with capillary electrophoresis. Part 5. Automated preconcentration and determination of pseudoephedrine in human plasma, 394 (1999) 13

Chen, H.Y. and Long, Y.T., Study of biomolecules by combining electrochemistry with UV/Vis, IR and surface enhanced Raman scattering spectroscopy by a novel flow microcell, 382 (1999)

Chen, H.Y., see Feng, Y.L., 375 (1998) 167

Chen, H.Y., see Feng, Y.L., 386 (1999) 297

Chen, H.-Y., see He, Y.-N., 353 (1997) 319

Chen, H.-y., see Hui, F., 346 (1997) 319

Chen, H.Y., see Ni, J.A., 378 (1999) 151

Chen, H.Y., see Xiao, Y., 391 (1999) 73

Chen, H.-Y., see Xiao, Y., 391 (1999) 299

Chen, H.-Y., see Xu, D.-K., 349 (1997) 215

Chen, H.-Y., see Yu, A.-M., 344 (1997) 181

Chen, H.Y., see Zhao, G.C., 394 (1999) 337

Chen, I.L., see Zen, J.M., 369 (1998) 103

Chen, J.L., see Liu, C.Y., 369 (1998) 225

Chen, J.L., see Liu, C.Y., 384 (1999) 51

Chen, K., see Liu, D., 307 (1995) 61

Chen, L., see Pichon, V., 311 (1995) 429

Chen, L., see Wang, J., 305 (1995) 3

Chen, M., Cai, W.P., Zhu, Q.Z., Wang, X.S. and Xu, J.G., Determination of glucose based on the effect of photons as a substitute for glucose oxidase, 388 (1999) 11

Chen, M.-C. and Huan, H.-J., Application of a nickel-microelectrode-incorporated end-column detector for capillary electrophoretic determination of alditols and alcohols, 341 (1997) 83

Chen, N.-Y., see Liu, H.-L., 342 (1997) 223

Chen, Q., Pamidi, P.V.A., Wang, J. and Kutner, W., β-Cyclodextrin cation exchange polymer membrane for improved second-generation glucose biosensors, 306 (1995) 201

Chen, Q., see Wang, J., 305 (1995) 3

Chen, Q., Mou, S., Hou, X. and Ni, Z., Simultaneous determination of caffeine, theobromine and theophylline in foods and pharmaceutical preparations by using ion chromatography, 371 (1998)

Chen, Q., Li, D., Zhu, Q., Zheng, H. and Xu, J.G., Application of iron-tetrasulfonatophthalocyanine as a new mimetic peroxidase in the determination of hydrogen peroxide with p-hydroxyphenylpropionic acid as a substrate, 381 (1999) 175

Chen, R.L.C. and Matsumoto, K., Sequential enzymatic monitoring of glucose, ethanol and glutamate in bioreactor fermentation broth containing a high salt concentration by a multi-channel flow-injection analysis method, 308 (1995) 145

Chen, S.F., see Li, Y.C., 372 (1998) 365

Chen, S.-H., see Wu, S.-M., 307 (1995) 103

Chen, S.Z., see Zhang, Z.Q., 382 (1999) 283

Chen, T., see Chen, Z., 367 (1998) 11

Chen, W., Pardue, H. and Williams, S., Evaluation of alternative measurement and data-processing options for enzyme-based biosensors, 388 (1999) 231

Chen, W.-C., see Liu, D., 338 (1997) 209

Chen, X., Ruan, C., Kong, J. and Deng, J., Amperometric determination of nitrite based on reaction with 3-mercaptopropanoic acid. 382 (1999) 189

Chen, X., see Song, W., 394 (1999) 73

Chen, X., see Wu, X., 374 (1998) 61

Chen, Y., see Zhang, J., 344 (1997) 291

Chen, Z. and Adams, M.A., Simultaneous determination of aliphatic and aromatic acids in plant tissue extracts by ion-exclusion chromatography, 386 (1999) 249

Chen, Z. and Hibbert, D.B., Simultaneous amperometric and potentiometric detection of inorganic anions in flow systems using platinum and silver/silver chloride electrodes, 350 (1997) 1

Chen, Z., Alexander, P.W. and Haddad, P.R., Liquid chromatography of carboxylic acids using potentiometric detection with a tungsten oxide electrode, 338 (1997) 41

Chen, Z., Grierson, P. and Adams, M.A., Direct determination of phosphate in soil extracts by potentiometric flow injection using a cobalt wire electrode, 363 (1998) 191

Chen, Z., see Wang, T., 306 (1995) 249

Chen, Z., Ying, M., Chen, T., Qiu, X. and Li, Z., Study on the magnetic-polarization-resonance-synchronous-fluorimetry and its application to simultaneous determination of polycyclic aromatic hydrocarbons, 367 (1998) 11

Chen, Z.L., see Głód, B.K., 306 (1995) 267

Chen, Z.P., Jiang, J.H., Li, Y., Shen, H.L., Liag, Y.Z. and Yu, R.Q., Smoothed window factor analysis, 381 (1999) 233

Chen, Z.P., see Li, Y., 388 (1999) 161

Chen, Z.-S., see Hiraide, M., 302 (1995) 103

Chena, B., see Anderegg, G., 367 (1998) 261

Cheng, B., see Xia, S., 382 (1999) 151

Cheng, C.-P., see Huang, S.-D., 343 (1997) 101

Cheng, G., see Zhang, J., 388 (1999) 71

Cheng, J., see Zhao, T., 358 (1998) 263

Cheng, J.k., see Liu, B.f., 358 (1998) 157

Cheng, J.k., see Zhang, Y., 363 (1998) 157

Cheng, J.K., see Zhao, Y.D., 388 (1999) 93

Cheng, N., see Wu, J., 327 (1996) 133

Cheng, O.M., see Lau, O.W., 376 (1998) 197

Cheng, Y., see Xingyao, Z., 329 (1996) 105

Cheng, Z.H., Ke, A.L. and Shen, Y.T., Spectrophotometry of nucleic acids by their effect on the complex of cobalt(II) with 4-[(5-chloro-2-pyridyl)azo]-1,3-diaminobenzene, 345 (1997) 235

Chenghong, L., Zhanen, Z., Haiying, L., Jilie, K. and Jiaqi, D., Biosensoring of hydrogen peroxide using new methylene blue N incorporated in a montmorillonite-modified horseradish peroxidase immobilization matrix as an electron shuttle, 332 (1996) 73

Cheng-Hsiung, K., see Chu-Fang, W., 320 (1996) 207

Cheng-Jian, X., see Zhong, C., 335 (1996) 117

Chen-Xin, C., Huang-Xian, J. and Hong-Yuan, C., Catalytic oxidation of reduced nicotinamide adenine dinucleotide at a microband gold electrode modified with nickel hexacyanoferrate, 310 (1995) 145

Cheshire, M.V., see Anderson, P., 327 (1996) 53

Chesney, D.J., see Lee Jeong, M., 389 (1999) 53

Chevalet, J., see Silva, P.R.M., 385 (1999) 249

Chevalier, P., see Hubert, P., 391 (1999) 135

Chi, H., see He, H.-B., 309 (1995) 73

Chi, Y., Chen, H. and Chen, G., Electrochemical reduction of isatic acid at mercury electrodes in aqueous media, 354 (1997) 365

Chia, L.S., see Li, J., 362 (1998) 203

Chia-Chong, C. and Ching-Erh, L., Analysis of copper corrosion inhibitors by capillary zone electrophoresis, 321 (1996) 215

Chianella, I., see Marrazza, G., 387 (1999) 297

Chiang, D.W.L., see Hauser, P.C., 302 (1995) 241
Chiang, K.L., Krull, U.J. and Nikolelis, D.P., Ellipsometric determination of the structure of surface-stabilized bilayer lipid

membranes on silver metal, 357 (1997) 73 Chiang, P.C., see Wang, C.F., 368 (1998) 11

Chiap, P., Hubert, P., Boulanger, B. and Crommen, J., Validation of an automated method for the liquid chromatographic determination of atenolol in plasma: application of a new validation protocol, 391 (1999) 227

Chiap, P., see Hubert, P., 391 (1999) 135

Chiarelli, M. Paul, Wu, H., Antunes, A.M. and Branco, P.S., Post-source decay production studies of aniline and methylaniline adducts of deoxyguanosine, 397 (1999) 257

Chiarizia, R., see Horwitz, E.P., 310 (1995) 63

Chiba, A., see Fauzi, H., 365 (1998) 309

Chiba, K., see Kondo, H., 394 (1999) 293

Chiba, K., see Umemura, T., 349 (1997) 231

Chicharro, M., see Joseph, W., 344 (1997) 111

Chicharro, M., see Wang, J., 319 (1996) 347

Chicharro, M., see Wang, J., 347 (1997) 1

Chicharro, M., Zapardiel, A., Bermejo, E., Pérez, J.A. and Hernández, L., Amperometric determination of sympathomimetic drugs by flow injection analysis with a metallic copper electrode, 379 (1999) 81

Chichila, T.M.P., see Jayatilaka, A., 302 (1995) 147

Chieu, D.T. and Jian, L., Characterization of the acousto-optic tunable filter for the ultraviolet and visible regions and development of an acousto-optic tunable filter based rapid scanning detector for high-performance liquid chromatography, 314 (1995) 57

Chimpalee, D., see Chimpalee, N., 304 (1995) 97

Chimpalee, D., see Chimpalee, N., 329 (1996) 315

Chimpalee, D., see Chimpalee, N., 331 (1996) 253

Chimpalee, N., Chimpalee, D., Lohwithee, S., Nakwatchara, L. and Burns, D.T., Spectrophotometric determination of copper after extraction of its chelate with bis(acetylacetone)ethylenediimine, 329 (1996) 315

Chimpalee, N., Chimpalee, D., Lohwithee, S., Nakwatchara, L. and Burns, D.T., Flow injection extraction spectrophotometric determination of copper using bis(acetylacetone)ethylenediimine, 331 (1996) 253

Chimpalee, N., Chimpalee, D., Srithawepoon, S., Patjarut, T. and Burns, D.T., Flow-injection spectrophotometric determination of copper using bis(cyclohexanone) oxalyldihydrazone, 304 (1995) 97

Chimpalee, N., see Burns, D.T., 311 (1995) 93

Chin, C.J., see Wang, C.F., 389 (1999) 257

Chin, C.J., see Wang, C.F., 392 (1999) 299

Chinen, T., see Inukai, Y., 371 (1998) 187

Ching-Erh, L., see Chia-Chong, C., 321 (1996) 215

Chinkap, C., see Moo-Jeong, S., 313 (1995) 221

Chin-Kwan, M., Chuen-Shing, M. and Ping-Kay, H., Determination of benzhexol hydrochloride and ethambutol hydrochloride tablets by liquid chromatography, 314 (1995) 77

Chiou, C.S. and Shih, J.S., Application of crown ethers as modifiers for the separation of amines by capillary electrophoresis, 360 (1998) 69

Chiou, C.S. and Shih, J.S., Piezoelectric cryptand-coated quartz crystal liquid chromatographic detector for cations/anions and polar organic molecules in solutions, 392 (1999) 125

Chiou, S.H. and Wu, S.H., Evaluation of commonly used electrophoretic methods for the analysis of proteins and peptides and their application to biotechnology, 383 (1999) 47

Chiron, S., see Marco, M.-P., 311 (1995) 319

Chisholm, W., Rosman, K.J.R., Boutron, C.F., Candelone, J.P. and Hong, S., Determination of lead isotopic ratios in Greenland and Antarctic snow and ice at picogram per gram concentrations, 311 (1995) 141

Chisholm, W., Rosman, K.J.R., Candelone, J.-P., Boutron, C.F. and Bolshov, M.A., Measurement of bismuth at pg g<sup>-1</sup> concentrations in snow and ice samples by thermal ionisation mass spectrometry, 347 (1997) 351

Chisholm, W., see Bollhöfer, A., 390 (1999) 227

Chittleborough, D.J., see Ranville, J.F., 381 (1999) 315

Chiu, R.W., Jimenez, J.C. and Monnig, C.A., High molecular weight polyarginine as a capillary coating for separation of cationic proteins by capillary electrophoresis, 307 (1995) 193

Chmurzyński, L., Studies on correlations of acid-base properties of substituted pyridine N-oxides in solutions. Part 1. Correlations of the pK<sub>a</sub> values in non-aqueous solvents and water, 321 (1996) 237

Chmurzyński, L., Studies on correlations of acid-base properties of substituted pyridine N-oxides in solutions. Part 2: Correlations of the pK<sub>a</sub> values in non-aqueous media, 329 (1996) 267

Chmurzyński, L., Studies on correlations of acid-base properties of substituted pyridine N-oxides in solutions. Correlations of cationic homoconjugation constants and pK<sub>a</sub> values in non-aqueous media, 334 (1996) 155 Chmurzyński, L., Kaczmarczyk, E. and Liwo, A., A study of cationic heteroconjugation equilibria of substituted pyridine N-oxides in acetonitrile, 338 (1997) 261

Chmurzyński, L., Kaczmarczyk, E., Augustin-Nowacka, D. and Barczyński, P., A potentiometric study of cationic heteroconjugation equilibria in systems with substituted pyridine N-oxides in nitrobenzene, 336 (1996) 107

Chmurzyński, L., Liwo, A. and Barczyński, P., A potentiometric study of acid-base equilibria of substituted pyridine N-oxides in nitrobenzene, 335 (1996) 147

Chmurzyński, L., see Augustin-Nowacka, D., 381 (1999) 215

Cho, B.Y., see Liu, H., 400 (1999) 181

Cho-Chun, H. and Chuen-Ying, L., Metallomesogens as stationary phases for ligand exchange gas chromatography - Part I. The use of nickel and zinc complexes of 4-decanoxydithiobenzoic acid for the separation of polycyclic aromatic hydrocarbons and dialkyl sulfides, 332 (1996) 23

Chodura, A., see Glaus, M.A., 398 (1999) 111

Choi, K.J., Kim, Y.H., Chang, S.M., Egawa, A. and Muramatsu, H., Characterization of aluminum corrosion with a quartz crystal analyzer, 386 (1999) 229

Choi, M.F. and Hawkins, P., Development of sulphide-selective optode membranes based on fluorescence quenching, 344 (1997) 105

Choi, M.M. and Ling Tse, O., Humidity-sensitive optode membrane based on a fluorescent dye immobilized in gelatin film, 378 (1999) 127

Choi, M.M. and Xiao, D., Oxygen-sensitive reverse-phase optode membrane using silica gel-adsorbed ruthenium(II) complex embedded in gelatin film, 387 (1999) 197

Choquette, S.J., see Tóth, K., 353 (1997) 1

Choquette, S.J., see Travis, J.C., 380 (1999) 115

Chorng-jev, H., see Hueih-Jen, Y., 312 (1995) 141

Chovelon, J.M., see Abdelghani, A., 337 (1997) 225

Chow, C.W., see Kolev, S.D., 377 (1998) 13

Chow, C.W.K, see Lane, R., 395 (1999) 225

Chow, C.W.K., Davey, D.E. and Mulcahy, D.E., Signal filtering of potentiometric stripping analysis using Fourier techniques, 338 (1997) 167

Chow, C.W.K., Davey, D.E., Mulcahy, D.E. and Yeow, T.C.W., Signal enhancement of potentiometric stripping analysis using digital signal processing, 307 (1995) 15

Chow, C.W.K., Kolev, S.D., Davey, D.E. and Mulcahy, D.E., Determination of copper in natural waters by batch and oscillating flow injection stripping potentiometry, 330 (1996) 79

Chow, C.W.K., see Kolev, S.D., 309 (1995) 293

Chow, C.W.K., see Kolev, S.D., 329 (1996) 1

Christensen, A.M.K., see Lundebye, A.-K., 311 (1995) 109

Christian, G.D., see Peterson, K.L., 337 (1997) 99

Christophersen, M.J. and Cardwell, T.J., Determination of total phenols in waters and wastewaters using flow injection with electrochemical detection; an alternative to the standard colorimetric procedure, 323 (1996) 39

Chrzavzez, E., see Joyeux, C., 320 (1996) 77

Chu, J., Takeuchi, T. and Miwa, T., Retention behavior of polycyclic aromatic hydrocarbons in microcolumn liquid chromatography with acridine derivative as stationary phase, 370 (1998) 125 Chu, X., see Jiang, J.H., 354 (1997) 263

Chu, X., Shen, G.L., Jiang, J.H., Kang, T.F., Xiong, B. and Yu, R.Q., Voltammetric studies of the interaction of daunomycin anticancer drug with DNA and analytical applications, 373 (1998) 29

Chua-anusorn, W., see Rahman, I.H.A, 393 (1999) 235

Chuan, D., see Hongzhi, X., 319 (1996) 239

Chuang, C.L., Wang, Y.J. and Lan, H.L., Amperometric glucose sensors based on ferrocene-containing B-polyethylenimine and immobilized glucose oxidase, 353 (1997) 37

Chuang, H. and Arnold, M.A., Linear calibration function for optical oxygen sensors based on quenching of ruthenium fluorescence, 368 (1998) 83

Chuang, J.C., Miller, L.S., Davis, D.B., Peven, C.S., Johnson, J.C. and Van Emon, J.M., Analysis of soil and dust samples for polychlorinated biphenyls by enzyme-linked immunosorbent assay (ELISA), 376 (1998) 67

Chuang, J.C., Pollard, M.A., Misita, M. and Van Emon, J.M., Evaluation of analytical methods for determining pesticides in baby food, 399 (1999) 135

Chuanhong, T., see Zaizheng, Z., 350 (1997) 365

Chudobová, I., Vrbová, E., Kodíček, M., Janovcová, J. and Káš, J., Fibre optic biosensor for the determination of p-glucose based on absorption changes of immobilized glucose oxidase, 319 (1996)

Chuen-Shing, M., see Chin-Kwan, M., 314 (1995) 77

Chuen-Ying, L., see Cho-Chun, H., 332 (1996) 23

Chu-Fang, W., Jenq-Yann, Y. and Cheng-Hsiung, K., Multi-element analysis of airborne particulate matter by various spectrometric methods after microwave digestion, 320 (1996) 207

Chun, Q.M., Ke, A.L. and Shen, Y.T., Determination of proteins by fluorescence quenching of erythrosin B, 333 (1996) 83

Chun, Q.M., Ke, A.L. and Shen, Y.T., Microdetermination of proteins by Rayleigh light scattering technique with acid green 25, 338 (1997) 255

Chung, Y.S., see Sakai, T., 308 (1995) 329

Ci, Y.X., see Hong, F., 373 (1998) 207

Ci, Y.-x., see Liu, X.-j., 345 (1997) 213 Ci, Y.X., see Zhang, X.X., 392 (1999) 175

Ci, Y.x., see Zhu, L., 369 (1998) 205

Cichna, M., Knopp, D. and Niessner, R., Immunoaffinity chromatography of polycyclic aromatic hydrocarbons in columns prepared by the sol-gel method, 339 (1997) 241

Cid, A., see Arranz, A., 351 (1997) 97

Cid, A., see Arranz, A., 389 (1999) 225

Cid, H.J., see Bruhn, C.G., 306 (1995) 183

Cimerman, Z., Galic, N. and Bosner, B., The Schiff bases of salicylaldehyde and aminopyridines as highly sensitive analytical reagents, 343 (1997) 145

Cimerman, Z., see Galić, N., 343 (1997) 135

Cini, R., see Lepri, L., 317 (1995) 149

Cipriani, P., see Campanella, L., 305 (1995) 32

Ciscar, R., see Pastor, A., 344 (1997) 241

Ciszewska, W., see Ciszewski, A., 343 (1997) 225

Ciszewska, W., see Wasiak, W., 335 (1996) 201

Ciszewski, A., see Wasiak, W., 335 (1996) 201

Ciszewski, A., Wasiak, W. and Ciszewska, W., Hair analysis. Part 2.
Differential pulse anodic stripping voltammetric determination

of thallium in human hair samples of persons in permanent contact with lead in their workplace, 343 (1997) 225

Ciucu, A., see Nistor, C., 387 (1999) 309

Cladera, A., Alpízar, J., Estela, J.M., Cerdà, V., Catasús, M., Lastres, E. and García, L., Resolution of highly overlapping differential pulse anodic stripping voltammetric signals using multicomponent analysis and neural networks, 350 (1997) 163

Cladera, A., see Alpizar, J., 340 (1997) 149

Cladera, A., see Estela, J.M., 310 (1995) 307

Cladera, A., see Oms, M.T., 318 (1996) 251

Cladera, A., Tomàs, C., Gómez, E., Estela, J.M. and Cerdà, V., A new instrumental implementation of sequential injection analysis. 302 (1995) 297

Claessens, H.A., see Štulik, K., 352 (1997) 1

Clark, S.A., see Nagata, R., 304 (1995) 157

Clarke, F.J., The absolute calibration of mid-infrared transmittance standards, 380 (1999) 127

Clarke, F.J.J., see Birch, J.R., 380 (1999) 369

Clarke, N. and Danielsson, L.-G., The simultaneous speciation of aluminium and iron in a flow-injection system, 306 (1995) 5

Clarke, P.J., Hanson, A.R. and Verrill, J.F., Determination of colorimetric uncertainties in the spectrophotometric measurement of colour, 380 (1999) 277

Clarkson, P. and Cooke, M., The identification of an unusual volatile component in processed tobacco by gas chromatography with mass spectrometry and atomic emission detection, 335 (1996) 253

Clayden, N.J., Factor analysis of simulated time domain NMR data for semicrystalline polymers, 356 (1997) 27

Clayden, N.J., Lehnert, R.J. and Turnock, S., Factor analysis of time domain NMR data: crystallinity of poly(tetrafluoroethene), 344 (1997) 261

Clayson, C.H., see Finch, M.S., 377 (1998) 167

Cleij, P. and Hoogerbrugge, R., Linear data projection using a feedforward neural network, 348 (1997) 495

Clementis, G., see Tömpe, P., 305 (1995) 295

Clerc, J.T., see Baumann, K., 348 (1997) 327

Clerc, S.D., Jewsbury, R.A., Mortimer, M.G. and Jiang, Z., Indirect bioluminescent determination of europium(III) using flow injection analysis and on-line reduction, 339 (1997) 225

Cleva, C., Cachet, C., Cabrol-Bass, D. and Forrest, T.P., Advantages of a hierarchical system of neural-networks for the interpretation of infrared spectra in structure determination, 348 (1997) 255

Cleven, R.F., see Benegas, J.C., 369 (1998) 109

Clifford, A.A., see Özel, M.Z., 346 (1997) 73

Clough, A.E., Measuring the water content of synthetic lubricants with polymer-coated sensors, 315 (1995) 15

Clouser, D.L. and Jurs, P.C., The simulation of <sup>13</sup>C nuclear magnetic resonance spectra of dibenzofurans using multiple linear regression analysis and neural networks, 321 (1996) 127

Coale, K.H., see Colbert, D., 377 (1998) 255

Coale, K.H., see Zamzow, H., 377 (1998) 133

Cobo, M., Silva, M. and Pérez-Bendito, D., Chemiluminescence measurement of tertiary amines using the continuous-additionof-reagent technique. Determination of trimethylamine in fish samples, 356 (1997) 51 Coche-Guerente, L., Cosnier, S., Innocent, C. and Mailley, P., Development of amperometric biosensors based on the immobilization of enzymes in polymer films electrogenerated from a series of amphiphilic pyrrole derivatives, 311 (1995) 23

Cocito, G., see Bruzzoniti, M.C., 322 (1996) 49

Coedo, A.G., Dorado, M.T., Padilla, I. and Alguacil, F., Preconcentration and matrix separation of precious metals in geological and related materials using metalfix-chelamine resin prior to inductively coupled plasma mass spectrometry, 340 (1997) 31

Coedo, A.G., López, T.D. and Alguacil, F., On-line ion-exchange separation and determination of niobium, tantalum, tungsten, zirconium and hafnium in high-purity iron by flow injection inductively coupled plasma mass spectrometry, 315 (1995) 331

Coedo, A.G., Padilla, I., Dorado, T. and Alguacil, F.J., A micro-scale mercury cathode electrolysis procedure for on-line flow injection inductively coupled plasma mass spectrometry trace elements analysis in steel samples, 389 (1999) 247

Coello, J., see Blanco, M., 303 (1995) 309

Coello, J., see Blanco, M., 327 (1996) 145

Coello, J., see Blanco, M., 333 (1996) 147

Coello, J., see Blanco, M., 353 (1997) 351

Coello, J., see Blanco, M., 383 (1999) 291

Coello, J., see Blanco, M., 384 (1999) 207

Coello, J., see Blanco, M., 392 (1999) 237 Coello, J., see Blanco, M., 398 (1999) 83

Coen, S., see Vieillescazes, C., 317 (1995) 65

Coffey, C., Cooley Jr., B.E. and Walker, D.S., Real time quantitation of a chemical reaction by fiber optic near-infrared spectroscopy, 395 (1999) 335

Cofino, W.P., see Steen, R.J.C.A., 353 (1997) 153

Cohen, A.S. and Waters, F.G., Separation of osmium from geological materials by solvent extraction for analysis by thermal ionisation mass spectrometry, 332 (1996) 269

Cohen, H., see Brennan, J.D., 336 (1996) 157

Cohen, P., see Rholam, M., 352 (1997) 155

Cohen, S., see Liu, H., 400 (1999) 181

Colbert, D., Johnson, K.S. and Coale, K.H., Determination of cadmium in seawater using automated on-line preconcentration and direct injection graphite furnace atomic absorption spectrometry, 377 (1998) 255

Colcombe, S.M. and Snook, R.D., Thermal lens investigation of the temperature dependence of the refractive index of organo–aqueous solutions, 390 (1999) 155

Colcombe, S.M., Lowe, R.D. and Snook, R.D., Thermal lens investigation of the temperature dependence of the refractive index of aqueous electrolyte solutions, 356 (1997) 277

Coldiron, S.J., see Vaidya, B., 357 (1997) 167

Colin, J.P., see Burg, P., 317 (1995) 107

Collado-Sánchez, C., Pérez-Peña, J., Gelado-Caballero, M.D., Herrera-Melian, J.A. and Hernández-Brito, J.J., Rapid determination of copper, lead and cadmium in unpurged seawater by adsorptive stripping voltammetry, 320 (1996) 19

Collier, N., see Rohwer, H., 314 (1995) 219

Collier, W.A., see Hart, A.L., 386 (1999) 7

Collin, J.-P., see Li-Xian, S., 329 (1996) 57

Collinson, M.M., see Makote, R., 394 (1999) 195

Collinson, M.M., see Wei, H., 397 (1999) 113

Colmsjö, A., see Becker, G., 340 (1997) 181

Colmsjö, A., see Becker, G., 376 (1998) 265

Colombara, R., Massaro, S. and Tavares, M.F., Exploring the versatility of capillary electrophoresis for the analysis of ionic species in vehicular emission, 388 (1999) 171

Colombo, C. and van den Berg, C.M., In-line deoxygenation for flow analysis with voltammetric detection, 377 (1998) 229

Colombo, C. and van den Berg, C.M.G., Simultaneous determination of several trace metals in seawater using cathodic stripping voltammetry with mixed ligands, 337 (1997) 29

Colombo, C., van den Berg, C.M.G. and Daniel, A., A flow cell for on-line monitoring of metals in natural waters by voltammetry with a mercury drop electrode, 346 (1997) 101

Colón, L.A., see Rodríguez, S.A., 397 (1999) 207

Colpini, L.M.S., see Borgo, C.A., 385 (1999) 103

Coly, A. and Aaron, J.J., Cyclodextrin-enhanced fluorescence and photochemically-induced fluorescence determination of five aromatic pesticides in water, 360 (1998) 129

Coly, A. and Aaron, J.J., Sensitive and rapid flow injection analysis of sulfonylurea herbicides in water with micellar-enhanced photochemically induced fluorescence detection, 392 (1999) 255

Comba, M., see Zaruk, D., 376 (1998) 113

Comber, M., see Andrew, K.N., 314 (1995) 33

Comber, M., see Makovskaya, V., 315 (1995) 183

Comber, M., see Makovskaya, V., 315 (1995) 193

Combs, M.T., Gandee, M., Ashraf-Khorassani, M. and Taylor, L.T., Temperature and pressure effects on the supercritical fluid extraction profiles of sulfonamides from a spiked matrix using CHF<sub>3</sub> and CO<sub>2</sub>, 341 (1997) 285

Comhaire, F., see Dams, R., 399 (1999) 185

Comisso, N., see Schiavon, G., 305 (1995) 212

Compagnone, D. and Guilbault, G.G., Glucose oxidase/hexokinase electrode for the determination of ATP, 340 (1997) 109

Compañó, R., Granados, M., Leal, C. and Prat, M.D., Determination of triphenyltin in sea water samples by liquid chromatography with fluorimetric detection, 302 (1995) 185

Compañó, R., Granados, M., Leal, C. and Prat, M.D., Liquid chromatographic determination of triphenyltin and tributyltin using fluorimetric detection, 314 (1995) 175

Comtat, M., see Gilis, M., 355 (1997) 235

Conde, P.C., see Soares, H.M., 394 (1999) 325

Conesa, A.J., Pinilla, J.M. and Hernández, L., Determination of mebendazole in urine by cathodic stripping voltammetry, 331 (1996) 111

Conesa, A.J., see Pinilla, J.M., 319 (1996) 25

Cong, X., see Guo, Z.X., 379 (1999) 45

Congxiang, W., see Gongwei, Z., 350 (1997) 359

Connor, M.A., see Pantsar-Kallio, M., 393 (1999) 181

Conrath, N., Gründig, B., Hüwel, S. and Cammann, K., A novel enzyme sensor for the determination of inorganic phosphate, 309 (1995) 47

Constantinescu, O., see Trubert, D., 332 (1996) 257

Constantinescu, O., see Trubert, D., 374 (1998) 149

Contado, C., Dondi, F., Beckett, R. and Giddings, J.C., Separation of particulate environmental samples by SPLITT fractionation using different operating modes, 345 (1997) 99

Contardi, C., see Abollino, O., 383 (1999) 243

Contento Salcedo, A.M., see Berzas Nevado, J.J., 378 (1999) 63

Contreras, M., see Fernandez-Alba, A.R., 311 (1995) 371

Conway, S., see O'Neill, S., 398 (1999) 1

Coo, L.d., Cardwell, T.J., Cattrall, R.W. and Kolev, S.D., Spectrophotometric study of the solubility and the protolytic properties of 1-(2-pyridylazo)-2-naphthol in different ethanol-water solutions, 360 (1998) 153

Coo, L.d., Cardwell, T.J., Cattrall, R.W. and Kolev, S.D., Study of the extraction of 1-(2'-pyridylazo)-2-naphthol from ethanolwater solutions into Nafion (membranes, 392 (1999) 201

Coo, L.d., Sadek, M., Brownlee, R.T., Cardwell, T.J., Cattrall, R.W. and Kolev, S.D., Determination of the diffusion coefficient of 1-(2'-pyridylazo)-2-naphthol in ethanol-water solutions using flow injection and nuclear magnetic resonance techniques, 386 (1999) 137

Cooke, C., see Keenan, F., 354 (1997) 1

Cooke, M., see Clarkson, P., 335 (1996) 253

Cooke, M., see Keenan, F., 354 (1997) 1

Cooke, M., see Lee, K.M., 395 (1999) 179

Cooks, R. Graham, see Chen, G., 356 (1997) 149

Cooks, R.G., see Soni, M.H., 303 (1995) 149

Cooks, R.G., see Srinivasan, N., 316 (1995) 269

Cooks, R.G., see Srinivasan, N., 350 (1997) 257

Cooks, R.G., see Wong, P.S.H., 310 (1995) 387

Cooksey, B.G., see Gibson, L.T., 337 (1997) 151

Cooksey, B.G., see Gibson, L.T., 337 (1997) 253

Cooksey, B.G., see Gibson, L.T., 341 (1997) 1

Cooksey, B.G., see Gibson, L.T., 341 (1997) 11

Cooley Jr., B.E., see Coffey, C., 395 (1999) 335

Coon, D., see Rechnitz, G.A., 337 (1997) 297 Cooper, D.J., see Ashton, D.S., 306 (1995) 43

Cooper, G.A., see JiJi, R.D., 397 (1999) 61

Cooper, J.M., see Pritchard, D.J., 310 (1995) 251

Cooper, S., see Buttner, W.J., 341 (1997) 63

Coppi, C., see Palchetti, I., 337 (1997) 315

Corbisier, P., van der Lelie, D., Borremans, B., Provoost, A., de Lorenzo, V., Brown, N.L., Lloyd, J.R., Hobman, J.L., Csöregi, E., Johansson, G. and Mattiasson, B., Whole cell- and protein-based biosensors for the detection of bioavailable heavy metals in environmental samples, 387 (1999) 235

Cordero, B.M., see Fernandez Laespada, M.E., 327 (1996) 253

Córdoba, M.H., see García, I.L., 308 (1995) 67

Córdoba, M.H., see García, I.L., 308 (1995) 85

Córdoba, M.H., see Viñas, P., 318 (1996) 319

Cornelis, R., see Zhang, X., 319 (1996) 177

Corns, W.T., see Louise Armstrong, H.E., 390 (1999) 245

Correia dos Santos, M.M., see Lopes da Conceição, A.C., 343 (1997)

Correig, X., see Brezmes, J., 348 (1997) 503

Corrieu, G., see Joyeux, C., 320 (1996) 77

Corso, T.N. and Brenna, J. Thomas, On-line pyrolysis of hydrocarbons coupled to high-precision carbon isotope ratio analysis, 397 (1999) 217

Cortés, I. and Albertús, F., Selective determination of sulfuric acid in liquors from acidic nickel ore extraction by flow injection analysis, 328 (1996) 61

Cortés, I., see Albertús, F., 344 (1997) 271

Cortina, J.L., see El Aamrani, F.Z., 382 (1999) 205

Cortina, J.L., see García, M.A., 353 (1997) 123

Cosano, J.S., de Castro, M.D.L. and Valcárcel, M., Automatic continuous-flow determination of sulphite in the presence of a high concentration of thiosulphate, 302 (1995) 269

Cosano, J.S., Izquierdo, A., de Castro, M.D.L., Valcárcel, M., Aguilar, C. and Penelas, G., Methods for on-line monitoring to be implemented in an ammonium thiosulphate production plant, 308 (1995) 187

Cosca, C.E., see Feely, R.A., 377 (1998) 185

Cosnier, S. and Popescu, I.C., Poly(amphiphilic pyrrole)-tyrosinaseperoxidase electrode for amplified flow injection-amperometric detection of phenol, 319 (1996) 145

Cosnier, S., see Besombes, J.-L., 311 (1995) 255

Cosnier, S., see Besombes, J.-L., 317 (1995) 275

Cosnier, S., see Coche-Guerente, L., 311 (1995) 23

Cosnier, S., see Poyard, S., 364 (1998) 165

Cosofret, B.R., see Marzouk, S.A., 363 (1998) 57

Cosofret, V.V., Erdosy, M., Johnson, T.A., Bellinger, D.A., Buck, R.P., Ash, R.B. and Neuman, M.R., Electroanalytical and surface characterization of encapsulated implantable membrane planar microsensors, 314 (1995) 1

Ćosović, B., see Gašparović, B., 338 (1997) 179

Costa Lima, J.L., see Gouveia, L.F., 366 (1998) 271

Costa Lima, J.L., see Honorato, R.S., 396 (1999) 91

Costa Lima, J.L., see Martelli, P.B., 387 (1999) 165

Costa Lima, J.L.F., see Celestino Oliveira, C., 371 (1998) 57

Costa, A.C., see Teixeira, L.S., 383 (1999) 309

Costa, A.C.S., see de Jesus, D.S., 366 (1998) 263

Costa, A.C.S., see Ferreira, S.L.C., 378 (1999) 287

Costa, C.M.M., see Borgo, C.A., 385 (1999) 103

Costa, R.C., see Araújo, A.N., 358 (1998) 111

Costadinova, L., see Nedeltcheva, T., 336 (1996) 223

Costa-Fernández, J.M., Diaz-García, M.E. and Sanz-Medel, A., Sol-gel immobilized room-temperature phosphorescent metalchelate as luminescent oxygen sensing material, 360 (1998) 17

Costa-García, A., see Fernández-Abedul, M.T., 328 (1996) 67

Coté, G.L., see McShane, M.J., 388 (1999) 251

Cotroneo, A., see Campisi, B., 312 (1995) 199

Coufal, P., see Li, T., 360 (1998) 53

Coulet, P.R., see Marquette, C.A., 398 (1999) 173

Coulter, S.K., see Somsen, G.W., 349 (1997) 189

Couto, C.M., Lima, J.L., Montenegro, M. Conceição B.S.M., Reis, B.F. and Zagatto, E.A., Potentiometric flow injection determination of cadmium in waste waters including in-line ion-exchange separation/concentration, 366 (1998) 155

Cowell, D.C., see Abass, A.K., 373 (1998) 1

Cox, M.G. and Harris, P.M., Design and use of reference data sets for testing scientific software, 380 (1999) 339

Craig, A., see Zheng, P., 310 (1995) 485

Creager, S.E. and Olsen, K.G., Self-assembled monolayers and enzyme electrodes: progress, problems and prospects, 307 (1995) 277

Cremisini, C., Di Sario, S., Mela, J., Pilloton, R. and Palleschi, G., Evaluation of the use of free and immobilised acetylcholinesterase for paraoxon detection with an amperometric choline oxidase based biosensor, 311 (1995) 273 Cremisini, C., see Mester, Z., 359 (1998) 133

Cremisini, C., see Mester, Z., 395 (1999) 157

Cretin, M. and Fabry, P., Detection and selectivity properties of Li\*ion-selective electrodes based on NASICON-type ceramics, 354 (1997) 291

Cretin, M., Alerm, L., Bartroli, J. and Fabry, P., Lithium determination in artificial serum using flow injection systems with a selective solid-state tubular electrode based on NASICON membranes, 350 (1997) 7

Crimmins, D.L., Strong cation-exchange high-performance liquid chromatography as a versatile tool for the characterization and purification of peptides, 352 (1997) 21

Crisponi, G., see Aragoni, M.C., 316 (1995) 195

Cristaudo, A., see Alimonti, A., 306 (1995) 35

Crommen, J., see Chiap, P., 391 (1999) 227

Crommen, J., see Hubert, P., 391 (1999) 135

Cronan, C., see Lakshman, S., 321 (1996) 113

Cronan, C.S., see Fang, F., 373 (1998) 139 Cross, G.J., see Cardwell, T.J., 308 (1995) 197

Croubels, S., Baeyens, W. and Van Peteghem, C., Post-column zirconium chelation and fluorescence detection for the liquid chromatographic determination of tetracyclines, 303 (1995)

Crouch, S.R., see Hsieh, Y., 303 (1995) 231

Crouch, S.R., see Hsieh, Y., 304 (1995) 333

Crouch, S.R., see Hsieh, Y.-S., 302 (1995) 132

Crouch, S.R., see Hsieh, Y.-S., 309 (1995) 251

Crouch, S.R., see Shi, Y., 381 (1999) 165

Crouch, S.R., see Spence, D.M., 358 (1998) 95

Crouch, S.R., see Spence, D.M., 366 (1998) 305

Crouch, S.R., see Yun-Sheng, H., 309 (1995) 277

Croudace, I., Warwick, P., Taylor, R. and Dee, S., Rapid procedure for plutonium and uranium determination in soils using a borate fusion followed by ion-exchange and extraction chromatography, 371 (1998) 217

Croudace, I.W., see Warwick, P.E., 382 (1999) 225

Croudace, I.W., see Wigley, F., 380 (1999) 73

Crowder, M.W., Numan, A.q., Haddadian, F., Weitzel, M.A. and Danielson, N.D., Capillary electrophoresis of phosphoamino acids with indirect photometric detection, 384 (1999) 127

Crowley, E., O'Sullivan, C. and Guilbault, G.G., Amperometric immunosensor for granulocyte-macrephage colony-stimulating factor using screen-printed electrodes, 389 (1999) 171

Croze, S., see Houdier, S., 382 (1999) 253

Cruces-Blanco, C., Segura-Carretero, A. and Fernández-Gutiérrez, A., Experimental design applied to a room-temperature phosphorimetric method for the determination of acenaphthene in a microemulsion, 318 (1996) 357

Cruz Ortiz, M., see Herrero, A., 378 (1999) 245

Cruz, F.G., see Šikovec, M., 330 (1996) 245

Cruz-Jiménez, G., see Wróbel, K., 387 (1999) 217

Csapó, J., Csapó-Kiss, Z., Wágner, L., Tálos, T., Martin, T.G., Folestad, S., Tivesten, A. and Némethy, S., Hydrolysis of proteins performed at high temperatures and for short times with reduced racemization, in order to determine the enantiomers of D - and L-amino acids, 339 (1997) 99

Csapó-Kiss, Z., see Csapó, J., 339 (1997) 99

Cserháti, T. and Forgács, E., Thin layer chromatography and principal component analysis for the study of the interaction of amino acids with some antisense nucleosides, 316 (1995) 105

Cserháti, T., Use of spectral mapping technique for the separation of solvent strength and selectivity on β-cyclodextrin polymercoated HPLC column using monoamine oxidase inhibitory drugs as solutes, 348 (1997) 197

Cserháti, T., see Forgács, E., 348 (1997) 481

Cserháti, T., see Rodrigues, P., 372 (1998) 411

Csöregi, E., see Corbisier, P., 387 (1999) 235

Csöregi, E., see Rajendran, V., 373 (1998) 241

Csöregi, E., see Ruzgas, T., 330 (1996) 123

Csöregi, E., see Tessema, M., 349 (1997) 179

Csöregi, E., see Vijayakumar, A.R., 327 (1996) 223

Cuadrado, I., see Losada, J., 338 (1997) 191

Cubillán, H.S., see Granadillo, V.A., 306 (1995) 139

Cuculić, V., Mlakar, M. and Branica, M., Synergetic adsorption of copper(II) mixed ligand complexes onto the SEP-PAK C<sub>18</sub> column, 339 (1997) 181

Cuesta, A., Todolí, J.L., Mora, J. and Canals, A., Rapid determination of chemical oxygen demand by a semi-automated method based on microwave sample digestion, chromium(VI) organic solvent extraction and flame atomic absorption spectrometry, 372 (1998) 399

Cueto-Rejón, A.F., see López-Cueto, G., 335 (1996) 185

Cui, H., Li, Q., Meng, R., Zhao, H. and He, C., Flow injection analysis of tannic acid with inhibited chemiluminescent detection, 362 (1998) 151

Cukrowska, E., see Cukrowski, I., 312 (1995) 307

Cukrowski, I. and Luckay, R.C., A differential pulse polarographic study of bismuth<sup>III</sup> complexes with macrocyclic ligands 1,4,7,10tetraazacyclododecane and 1,4,7,10-tetrakis (2-hydroxypropyl)-1,4,7,10-tetraazacyclododecane. An out-of-cell determination of stability constants of polarographically active and inactive bismuth complexes at fixed ligand to metal ratio and various pH values, 372 (1998) 323

Cukrowski, I., A polarographic method of speciation for labile metal-ligand systems based on mass-balance equations. A differential pulse polarographic study at fixed ligand to metal ratio and varied pH, 336 (1996) 23

Cukrowski, I., Cukrowska, E., Hancock, R.D. and Anderegg, G., The effect of chelate ring size on metal ion size-based selectivity in polyamine ligands containing pyridyl and saturated nitrogen donor groups, 312 (1995) 307

Cukrowski, I., Hancock, R.D. and Luckay, R.C., Formation constant calculation for non-labile complexes based on a labile part of the metal-ligand system. A differential pulse polarographic study at fixed ligand to metal ratio and varied pH: application to polarographically inactive complexes, 319 (1996) 39

Cukrowski, I., Zeevaart, J.R. and Jarvis, N.V., A potentiometric and differential pulse polarographic study of Cd<sup>II</sup> with 1-hydroxyethylenediphosphonic acid, 379 (1999) 217

Cullis, P.G., see Hind, A.R., 377 (1998) 39

Cumming, R., Farrell, C., Nitescu, I., Rowell, F.J. and Tang, L.X., Environmental analysis in the workplace; development of airborne monitoring systems for potentially harmful pharmaceuticals: an improved rapid ELISA for ceftazidime, 311 (1995) 377 Cumming, R.H., see Rowell, F.J., 316 (1995) 247

Cumming, R.H., see Tang, L.X., 347 (1997) 235

Cumps, J., see Ritter, C., 318 (1996) 125

Čunderlíková, B., see Šíkurová, L., 303 (1995) 79

Cunguo, L., see Jinghe, Y., 325 (1996) 195

Curini, R., see Wenli, L., 362 (1998) 253

Curran, D.J., see Ramos, M.L., 364 (1998) 107

Currie, L.A., International recommendations offered on analytical detection and quantification concepts and nomenclature, 391 (1999) 103

Currie, L.A., Nomenclature in evaluation of analytical methods including detection and quantification capabilities, 391 (1995) 105

Currie, L.A., Detection and quantification limits: origins and historical overview, 391 (1999) 127

Curtius, A.J., see Dressler, V.L., 379 (1999) 175

Cusmai, P., see Carrer, I., 308 (1995) 20

Cybulska, A., see Koncki, R., 321 (1996) 27

Cygan, M.T., see Weiss, P.S., 307 (1995) 355

Cynkowski, T., see Palet, C., 343 (1997) 287

Czolk, R., see Plaschke, M., 304 (1995) 107

Czyżowicz, B., see Scczepaniak, W., 305 (1995) 207

## D

D'Amico, A., see Brunink, J.A.J., 325 (1996) 53

D'Amico, A., see Di Natale, C., 384 (1999) 249

D'Arrigo, P., Piergianni, V., Scarcelli, D. and Servi, S., A spectrophotometric assay for phospholipase D, 304 (1995) 249

D'Ascenzo, G., see Laganà, A., 354 (1997) 87

d'Oliveira, J.M.R., see Pinheiro, J.P., 329 (1996) 15

D'Orazio, D., see Campanella, L., 309 (1995) 387

D'Orazio, M. and Tonarini, S., Simultaneous determination of neodymium and samarium in silicate rocks and minerals by isotope dilution inductively coupled plasma mass spectrometry: Results on twenty geochemical reference samples, 351 (1997) 325

da Conceição, A.C.L., Gonçalves, M.L.S.S. and dos Santos, M.M.C., Rapid determinations of complexing stability constants by gradient flow-injection titration, 302 (1995) 97

da Cruz Vieira, I. and Fatibello-Filho, O., Flow injection spectrophotometric determination of total phenols using a crude extract of sweet potato root (*Ipomoea batatas* (L.) Lam.) as enzymatic source, 366 (1998) 111

da Cruz Vieira, I., see Fatibello-Filho, O., 354 (1997) 51

da Rosa, M.B., see Machado, E.L., 380 (1999) 93

da Silva, J.C.G.E., Machado, A.A.S.C. and Oliveira, C.J.S., Study of the interaction of Al(III) with a soil fulvic acid in the acid pH range by self-modeling mixture analysis of synchronous fluorescence spectral data, 349 (1997) 23

da Silva, J.C.G.E., Machado, A.A.S.C. and Silva, C.S.P.C.O., Simultaneous use of evolving factor analysis of fluorescence spectral data and analysis of pH titration data for comparison of the acid-base properties of fulvic acids, 318 (1996) 365

da Silva, M. Pilar, see Ortiz Viana, M. Mar, 382 (1999) 179

da Silva, M.d.C.H. and Pasquini, C., Determination of gaseous species by monosegmented flow systems. Volumetric determination of oxygen and carbon dioxide, 349 (1997) 377

da Silva, M.P., Fernández-Romero, J.M. and de Castro, M.D.L., Light scattering-based determination of fibrinogen in human plasma using an automated continuous system, 327 (1996) 101

da Silva, S.C., see Landgraf, M.D., 368 (1998) 155

Dabbene, V.G., Briñón, M.C. and de Bertorello, M.M., Determination of 3-chloro-N-chloro-N-(3,4-dimethyl-5-isoxazolyl)-4amine-1,2-naphthoquinone in presence of its degradation products using second derivative spectrophotometry, 318 (1996) 221

Dabek-Zlotorzynska, E., P.C. Lai, E. and R. Timerbaev, A., Capillary electrophoresis: the state-of-the-art in metal speciation studies, 359 (1998) 1

Dabek-Zlotorzynska, E., see Lai, E.P., 364 (1998) 63

Dabrio, M. and Rodríguez, A.R., Characterisation of zinc metallothioneins by electroanalytical techniques, 385 (1999) 295

Dabrio, M. and Rodríguez, A.R., Characterisation of zinc metallothioneins by electroanalytical techniques, 385 (1999) 307

Dacheux, N. and Aupiais, J., Determination of low concentrations of americium and curium by photon/electron rejecting alpha liquid scintillation, 363 (1998) 279

Dacheux, N., see Aupiais, J., 398 (1999) 205

Dachs, J., Fernández, I. and Bayona, J.M., Combined experimental design and information theory for the optimization of supercritical fluid extraction of organic priority pollutants from sediment, 351 (1997) 377

Daeil, H., see Moo-Jeong, S., 313 (1995) 221

Dagan, A., see Bardea, A., 385 (1999) 33

Dagenais, D.M., see Ewing, K.J., 340 (1997) 227

Daghbouche, Y., Garrigues, S. and de la Guardia, M., Solid phase preconcentration-Fourier transform infrared spectrometric determination of carbaryl and 1-naphthol, 314 (1995) 203

Daghbouche, Y., Garrigues, S. and de la Guardia, M., Liquid chromatography-Fourier transform infrared spectrometric determination of cholesterol in animal greases, 354 (1997) 97

Daghbouche, Y., Garrigues, S., Morales-Rubio, A. and de la Guardia, M., Evaluation of extraction alternatives for Fourier transform infrared spectrometric determination of oil and greases in water, 345 (1997) 161

Dagnac, T., Padró, A., Rubio, R. and Rauret, G., Optimisation of the extraction of arsenic species from mussels with low power focused microwaves by applying a Doehlert design, 364 (1998) 19

Dahl, R., see Al-Shawi, A.W., 333 (1996) 23

Dahl, R., see Al-Shawi, A.W., 391 (1999) 35

Dahlgren, R.L., Page, J.S. and Sweedler, J.V., Assaying neurotransmitters in and around single neurons with information-rich detectors, 400 (1999) 13

Dai, G., see Abollino, O., 383 (1999) 243

Dai, H.P., see Zhao, Y.D., 388 (1999) 93

Dajun, L., see Fang, Y.-z., 342 (1997) 13

Dakin, J., see Finch, M.S., 377 (1998) 167

Dalene, M., see Lind, P., 333 (1996) 277

Dall'Orto, V.C., Danilowicz, C., Sobral, S., Lo Balbo, A. and Rezzano, I., Liquid chromatography/electrochemical detection of phenols at a Poly[Ni-(Protoporphyrin IX)] chemically modified electrode, 336 (1996) 195

Damlin, P., Kvarnström, C. and Ivaska, A., An electrochemical quartz crystal microbalance study on growth of and ion transport in electrochemically polymerized poly(paraphenylene vinylene), 385 (1999) 175

Dams, R., Lambert, W.E., Comhaire, F. and De Leenheer, A.P., Production and characterization of sulforhodamine B containing large unilamellar vesicles labeled with atrazine, 399 (1999) 185

Dams, R., see Goossens, J., 304 (1995) 307

Dams, R., see Hu, Y., 355 (1997) 105

Dams, R., see Hu, Y., 373 (1998) 95

Dams, R., see Parent, M., 320 (1996) 1

Dams, R., see Vanhaecke, F., 383 (1999) 253

Dan, X., see Zhong, C., 335 (1996) 117

Dane, A.D., Janssen, F.E.D.O.R., van Sprang, H.A., Bekkers, M. and Buydens, L.M.C., A knowledge-controlled method for sequential wavelength-dispersive X-ray spectrometry: a feasibility study, 351 (1997) 359

Daneshfar, A., see Barzegar, M., 349 (1997) 245

Dangolle, C.D.F., see Burns, D. Thorburn, 356 (1997) 145

Dangolle, C.D.P., see Burns, D.T., 337 (1997) 113

Daniel, A., Birot, D., Lehaitre, M. and Poncin, J., Characterization and reduction of interferences in flow-injection analysis for the in situ determination of nitrate and nitrite in sea water, 308 (1995) 413

Daniel, A., see Colombo, C., 346 (1997) 101

Daniele, P.G., see Gulmini, M., 329 (1996) 33

Daniele, P.G., see Gulmini, M., 358 (1998) 195

Daniele, S., Antonietta Baldo, M., Bragato, C. and Lavagnini, I., Steady state voltammetry in the process of hydrogen evolution in buffer solutions, 361 (1998) 141

Daniele, S., Baldo, M.A. and Simonetto, F., Assessment of linearity between steady-state limiting current and analytical concentration of weak acids in the reaction of hydrogen evolution, 331 (1996) 117

Daniele, S., Bragato, C. and Baldo, M.A., An approach to the calibrationless determination of copper and lead by anodic stripping voltammetry at thin mercury film microelectrodes. Application to well water and rain, 346 (1997) 145

Daniele, S., see Baldo, M.A., 340 (1997) 77

Danielson, N.D., see Crowder, M.W., 384 (1999) 127

Danielson, N.D., see Fujima, J.M., 375 (1998) 233

Danielsson, B., see Dzgoev, A., 347 (1997) 87

Danielsson, B., see Mecklenburg, M., 347 (1997) 79

Danielsson, B., see Momeni, N., 387 (1999) 21

Danielsson, B., see Tang, X.J., 374 (1998) 185

Danielsson, L.-G. and Sparén, A., A mechanized system for the determination of low levels of quickly reacting aluminium in natural waters, 306 (1995) 173

Danielsson, L.G., see Albertús, F., 344 (1997) 271

Danielsson, L.G., see Berntsson, O., 364 (1998) 243

Danielsson, L.-G., see Clarke, N., 306 (1995) 5

Danielsson, L.G., see Furusjö, E., 373 (1998) 83

Danielsson, L.-G., see Luque-Pérez, E., 387 (1999) 155

Danielsson, L.-G., see Xin-Sheng, C., 332 (1996) 31

Danielsson, R., Petersson, L.R. and Frank, A., Multivariate data analysis as a tool for evaluating emission intensity, background equivalent concentration and detection limit obtained for different plasma positions in direct current plasma-atomic emission spectrometry, 354 (1997) 211

Danilowicz, C., see Dall'Orto, V.C., 336 (1996) 195

Dan-Ke, X., Lin, H. and Hong-Yuan, C., Determination of purine bases by capillary zone electrophoresis with wall-jet amperometric detection, 335 (1996) 95

Dankwardt, A., Müller, J. and Hock, B., Stabilization of enzyme immunoassays for atrazine, 362 (1998) 35

Dankwardt, A., see Hock, B., 311 (1995) 393

Dantoni, P., P. Serrano, S.H., Maria Oliveira Brett, A. and R. Gutz, I.G., Flow-injection determination of catechol with a new tyrosinase/DNA biosensor, 366 (1998) 137

Danzer, T. and Schwedt, G., Chemometric methods for the development of a biosensor system and the evaluation of inhibition studies with solutions and mixtures of pesticides and heavy metals Part 1. Development of an enzyme electrodes system for pesticide and heavy metal screening using selected chemometric methods, 318 (1996) 275

Danzer, T. and Schwedt, G., Multivariate evaluation of inhibition studies on an enzyme electrodes system with pesticides and mixtures of mercury and pesticides, 325 (1996) 1

Dao, K.L., see Fung, Y.S., 309 (1995) 173

Dapaah, A.R. and Ayame, A., Solvent extraction of arsenic from acid medium using zinc hexamethylenedithiocarbamate as an extractant, 360 (1998) 43

Dapaah, A.R., Takano, N. and Ayame, A., Solvent extraction of Pb(II) from acid medium with zinc hexamamethylenedithiocarbamate followed by back-extraction and subsequent determination by FAAS, 386 (1999) 281

Darwish, I., Akizawa, T., Hirose, K., Omura, K., EL-Rabbat, N. and Yoshioka, M., Preparation of a specific monoclonal antibody against 2'-deoxycytidine, 365 (1998) 121

Dasgupta, P.K. and Kar, S., Effects of separation potential, hydrostatic pressure and auxiliary electroosmotic pumping on a suppressed conductometric capillary electrophoresis separation system, 394 (1999) 1

Dasgupta, P.K., see Boring, C.B., 342 (1997) 123

Dasgupta, P.K., see Hanghui, L., 326 (1996) 13

Dasgupta, P.K., see Huang, H., 380 (1999) 27

Dasgupta, P.K., see Li, J., 398 (1999) 33

Dasgupta, P.K., see Poruthoor, S.K., 361 (1998) 151

Dasgupta, P.K., see Shaorong, L., 308 (1995) 281

Dasgupta, P.K., see Sjögren, A., 384 (1999) 135

Date, Y., see Kohashi, K., 365 (1998) 177

Datta, D., see Hall, C.E., 323 (1996) 87

Dauler, E., see Migdall, A., 380 (1999) 311

Daunert, S., see Diez, S., 315 (1995) 339

Daunert, S., see Lewis, J.C., 397 (1999) 279

Daunert, S., see Palet, C., 343 (1997) 287

Daunert, S., see Ramanathan, S., 369 (1998) 181

Daunert, S., see Ramanathan, S., 369 (1998) 189 Daussant, J., see Sajdok, J., 315 (1995) 109

Davey, D.E., see Chow, C.W.K., 307 (1995) 15

Davey, D.E., see Chow, C.W.K., 330 (1996) 79

Davey, D.E., see Chow, C.W.K., 338 (1997) 167

Davey, D.E., see Kolev, S.D., 309 (1995) 293

Davey, D.E., see Kolev, S.D., 329 (1996) 1

Davey, D.E., see Kolev, S.D., 377 (1998) 13

Davey, D.E., see Lane, R., 395 (1999) 225

David Gibson, M., see Sun, F., 364 (1998) 1

David, A.R., McCormack, T., Morris, A.W. and Worsfold, P.J., A submersible flow injection-based sensor for the determination of total oxidised nitrogen in coastal waters, 361 (1998) 63

David, F., see Paneli, M., 304 (1995) 177

Davide, F.A.M., see Brunink, J.A.J., 325 (1996) 53

Davidson, C.M., Duncan, A.L., Littlejohn, D., Ure, A.M. and Garden, L.M., A critical evaluation of the three-stage BCR sequential extraction procedure to assess the potential mobility and toxicity of heavy metals in industrially-contaminated land, 363 (1998) 45

Davidson, C.M., see Anderson, P., 327 (1996) 53

Davidson, C.M., see Sahuquillo, A., 382 (1999) 317

Davies, A.E. and Fogg, A.G., Flow injection sandwich technique applied to indirect visible spectrophotometric determinations. Bromimetric and iodimetric determination of sulphite, 318 (1995) 55

Davies, M.C., see Pope, L.H., 400 (1999) 27

Davies, M.I., A review of microdialysis sampling for pharmacokinetic applications, 379 (1999) 227

Davies, M.I., see Heppert, K.E., 379 (1999) 359

Davis, D.B., see Chuang, J.C., 376 (1998) 67

Davis, J.A., see Evans, C.E., 397 (1999) 163

Davis, J.M., see Johll, M., 302 (1995) 133 Davis, W.M., see Buttner, W.J., 341 (1997) 63

Davison, W., Buffle, J. and DeVitre, R., Voltammetric characterization of a dissolved iron sulphide species by laboratory and field studies, 377 (1998) 193

Davison, W., see Chang, L.Y., 368 (1998) 243

Davison, W., see Zhang, H., 370 (1998) 29

Davison, W., see Zhang, H., 398 (1999) 329

Dawe, R., see Yuping, Z., 318 (1996) 239

Daykin, R.N.C. and Haswell, S.J., Development of a micro flow injection manifold for the determination of orthophosphate, 313 (1995) 155

Díaz García, M.E., see Badía, R., 371 (1998) 73

Díaz, B.C., see Carretero, A.S., 361 (1998) 217

Díaz-Cruz, J.M., see Grabarić, B.S., 363 (1998) 261

Díaz-Cruz, J.M., see Nunes, G.S., 399 (1999) 37

Díaz-Cruz, J.M., see Torres, M., 371 (1998) 23

Díaz-Cruz, M.S., Grabarić, B.S., Grabarić, Z., Esteban, M. and Casassas, E., Optimisation of resolution function in signals ratio method and deconvolution by polynomial division – quantitation of Cd(II) and In(III) from their global signals obtained at carbon fibre disk ultramicroelectrode, 382 (1999) 105

Díaz-Cruz, M.S., Mendieta, J., Monjonell, A., Tauler, R. and Esteban, M., Zinc-binding properties of the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: analysis by differential pulse polarography and multivariate curve resolution, 385 (1999) 353

Díaz-Cruz, M.S., see Mendieta, J., 390 (1999) 15

- Dazhong, S., Qi, K., Zechang, L. and Lizeng, W., Oscillation condition for a series piezoelectric sensor. Application to the determination of urease activity in plant seeds, 340 (1997) 55
- de Aguiar, P.F., Bourguignon, B. and Massart, D.L., Comparison of models and designs for optimisation of the pH and solvent strength in HPLC, 356 (1997) 7
- de Aguiar, P.F., Heyden, Y.V. and Massart, D.L., Study of different criteria for the selection of a rugged optimum in high performance liquid chromatography optimisation, 348 (1997) 223
- de Azevedo Tumang, C., Caseri de Luca, G., Nunes Fernandes, R., F. Reis, B. and Krug, F.J., Multicommutation in flow analysis exploiting a multizone trapping approach: spectrophotometric determination of boron in plants, 374 (1998) 53
- de Baar, H.J.W., see de Jong, J.T.M., 377 (1998) 113
- De Backer, A., Yperman, J., Ogorevc, B., Tavčar, G., Franco, D., Mullens, J. and Van Poucke, L.C., Multicomponent analysis of sodium cuprate, NaCuO<sub>2-x</sub>, having a high Cu(III) content, 334 (1996) 103
- de Balugera, Z.G., see Goicolea, M.A., 305 (1995) 310
- De Beer, J., see Heyden, Y.V., 312 (1995) 245
- de Beer, T., Besoo, P., Hoornweg, G.P., Velthorst, N.H., A.Th. Brinkman, U. and Gooijer, C., Sensitive absorption detection for micro-column liquid chromatography by ultraviolet forwardscattering degenerate four-wave mixing, 390 (1999) 55
- de Beer, T., Hoornweg, G.P., Grootendorst, G.J., Velthorst, N.H. and Gooijer, C., Forward-scattering degenerate four-wave mixing as a potential laser-based absorption detection method in liquid separation systems: Coupling to conventional-size liquid chromatography, 330 (1996) 189
- De Bellis, G. and Salani, G., Oligonucleotide analysis by capillary zone electrophoresis at low pH, 345 (1997) 1
- De Benedetto, G.E., Malitesta, C., Palmisano, F. and Zambonin, P.G., Characterization of an electro-synthesized methoxylated polypyrrole film used as permselective barrier in amperometric biosensors by X-ray photoelectron and Fourier transform infrared spectroscopy, 389 (1999) 197
- De Benedetto, G.E., Palmisano, F. and Zambonin, P.G., Flowthrough tyrosinase enzyme reactor based on reticulated vitreous carbon functionalized by an electrochemically synthesized film, 326 (1996) 149
- de Bertorello, M.M., see Dabbene, V.G., 318 (1996) 221
- de Betoño, S.F., Moreda, J.M., Arranz, A. and Arranz, J.F., Study of the adsorptive stripping voltammetric behaviour of the antihypertensive drug Doxazosin, 329 (1996) 25
- de Betoño, S.F., see Arranz, A., 351 (1997) 97
- De Bièvre, P., see Papadakis, I., 346 (1997) 17
- De Bièvre, P., see Wolff, J.-C., 346 (1997) 3
- De Boever, J., Mares, A., Stans, G., Bosmans, E. and Kohen, F., Comparison of chemiluminescent and chromogenic substrates of alkaline phosphatase in a direct immunoassay for plasma estradiol, 303 (1995) 143
- de Brouwer, J.F.C., see Zegers, B.N., 304 (1995) 47
- de Carvalho, M.S., see de Jesus, D.S., 366 (1998) 263
- de Carvalho, M.S., see Ferreira, S.L.C., 378 (1999) 287
- de Castro, L., see Cañizares, P., 317 (1995) 335

- de Castro, M.D.L. and Gámiz-Gracia, L., Miniaturisation: a welldefined trend in separation and preconcentration techniques, 351 (1997) 23
- de Castro, M.D.L., see Bryce, D.W., 324 (1996) 69
- de Castro, M.D.L., see Cañizares, M.P., 323 (1996) 55
- de Castro, M.D.L., see Cosano, J.S., 302 (1995) 269
- de Castro, M.D.L., see Cosano, J.S., 308 (1995) 187
- de Castro, M.D.L., see da Silva, M.P., 327 (1996) 101 de Castro, M.D.L., see Fernández-Romero, J.M., 308 (1995) 178
- de Castro, M.D.L., see Fernández-Romero, J.M., 331 (1996) 245
- de Castro, M.D.L., see Jiménez-Carmona, M.M., 342 (1997) 215
- de Castro, M.D.L., see Papaefstathiou, I., 308 (1995) 246
- de Castro, M.D.L., see Papaefstathiou, I., 330 (1996) 265
- de Castro, M.D.L., see Torres, P., 308 (1995) 371
- de Castro, M.D.L., see Velasco-Arjona, A., 333 (1996) 205
- de Diego, A., see Cazallas, R., 317 (1995) 127
- de Erenchun, N.R., Gomez de Balugera, Z., Goicolea, M.A. and Barrio, R.J., Determination of imidacloprid and its major metabolite in soils by liquid chromatography with pulsed reductive amperometric detection, 349 (1997) 199
- de Fluiter, P., see Jansen, E.H.J.M., 303 (1995) 99
- de Frutos, J.E.F., see Perez, A.S., 317 (1995) 319
- de Goeij, J.J., see Šlejkovec, Z., 380 (1999) 63
- de Goeij, J.J.M., see Harms, A.V., 394 (1999) 271
- de Gracia, J., Saravia, M.L.M.F.S., Araújo, A.N., Lima, J.L.F.C., del Valle, M. and Poch, M., Evaluation of natural computation techniques in the modelling and optimization of a sequential injection flow system for colorimetric iron(III) determination, 348 (1997) 143
- de Groot, P.J., Postma, G.J., Melssen, W.J. and Buydens, L.M.C., Selecting a representative training set for the classification of demolition waste using remote NIR sensing, 392 (1999) 67
- de Gyves, J., see Aguilar, J.C., 306 (1995) 243
- de Jesus, D.S., Cassella, R.J., Ferreira, S.L.C., Costa, A.C.S., de Carvalho, M.S. and Santelli, R.E., Polyurethane foam as a sorbent for continuous flow analysis: Preconcentration and spectrophotometric determination of zinc in biological materials, 366 (1998) 263
- de Jesus, D.S., see Ferreira, S.L.C., 378 (1999) 287
- de Jong, A.P.J.M., see Visser, T., 342 (1997) 151
- de Jong, J.T.M., den Das, J., Bathmann, U., Stoll, M.H.C., Kattner, G., Nolting, R.F. and de Baar, H.J.W., Dissolved iron at subnanomolar levels in the Southern Ocean as determined by shipboard analysis, 377 (1998) 113
- de Jong, S., see Nijhuis, A., 391 (1999) 187
- de Juan, A., Heyden, Y.V., Tauler, R. and Massart, D.L., Assessment of new constraints applied to the alternating least squares method, 346 (1997) 307
- de Juan, A., see Roig, M., 379 (1999) 121
- De Keukeleire, D., see Ouyang, J., 386 (1999) 257
- De Kimpe, J., see Zhang, X., 319 (1996) 177
- de la Campa, M.R.F., see Valdés-Hevia y Temprano, M.C., 309 (1995) 369
- De La Cruz, C., see Alciaturi, C.E., 340 (1997) 233
- De La Cruz, C., see Alciaturi, C.E., 376 (1998) 169
- De La Cruz, C., see Márquez, N., 395 (1999) 343

- de la Fuente, M.A. and Juárez, M., Determination of phosphorus in dairy products by sample wet digestion in a microwave oven, 309 (1995) 355
- de la Guardia, M., Khalaf, K.D., Carbonell, V. and Morales-Rubio, A., Clean analytical method for the determination of propoxur, 308 (1995) 462
- de la Guardia, M., see Bouhsain, Z., 330 (1996) 59
- de la Guardia, M., see Daghbouche, Y., 314 (1995) 203
- de la Guardia, M., see Daghbouche, Y., 345 (1997) 161
- de la Guardia, M., see Daghbouche, Y., 354 (1997) 97
- de la Guardia, M., see Escuriola, M.J., 390 (1999) 147
- de la Guardia, M., see F. Reis, B., 392 (1999) 265
- de la Guardia, M., see Garrigues, S., 317 (1995) 95
- de la Guardia, M., see López-Anreus, E., 308 (1995) 28
- de la Guardia, M., see López-Anreus, E., 333 (1996) 157
- de la Guardia, M., see Pastor, A., 344 (1997) 241
- de la Guardia, M., see Pérez-Ponce, A., 336 (1996) 123
- de la Guardia, M., see Pérez-Ponce, A., 358 (1998) 235
- de la Guardia, M., see Piñeiro-Avila, G., 371 (1998) 297
- de la Guardia, M., see Rambla, F.J., 344 (1997) 41
- de la Guardia, M., see Sánchez-Dasi, M.J., 361 (1998) 253
- de la Peña, A.M., see García, M.D.G., 348 (1997) 177
- de la Pezuela, C., see Blanco, M., 333 (1996) 147
- De Leenheer, A.P., see Dams, R., 399 (1999) 185
- de Lorenzo, V., see Corbisier, P., 387 (1999) 235
- De Luca, S., see Campanella, L., 385 (1999) 59
  De Maeyer, E.A.P. and Verbeeck, R.M.H., Analysis of bioactive fluoride-containing calcium aluminosilicate glasses, 358 (1998) 79
- de Marcos, S. and Wolfbeis, O.S., Optical sensing of pH based on polypyrrole films, 334 (1996) 149
- de Marcos, S., Galbán, J., Albajez, R. and Castillo, J.R., Enzymatic determination of ethanol based on the intrinsic fluorescence of alcohol dehydrogenase, 343 (1997) 117
- de Marcos, S., see Sierra, J.F., 368 (1998) 97
- de María, C.G., Manzano, T., Duarte, R. and Alonso, A., Selective flow-injection determination of methanol using immobilized enzyme reactors, 309 (1995) 241
- de Noord, O.E., see Centner, V., 330 (1996) 1
- de Noord, O.E., see Centner, V., 376 (1998) 153
- de Noord, O.E., see Jouan-Rimbaud, D., 388 (1999) 283
- de O. Rezende, M.O., see Landgraf, M.D., 368 (1998) 155
- de Oliveira Neto, G., see Garcia, C.A.B., 374 (1998) 201
- de Oliveira Neto, G., see Milagres, B.G., 347 (1997) 35
- de Oliveira Neto, G., see Milagres, B.G., 347 (1997) 3 de Oliveira Neto, G., see Rosatto, S.S., 390 (1999) 65
- de Oliveira, E., see Korn, M., 313 (1995) 177
- de Oliveira, W.A., see Sotomayor, M.D.P.T., 353 (1997) 275
- de Orbe, I., see Capitán, F., 331 (1996) 141
- de Orbe, I., see Capitán-Vallvey, L.F., 302 (1995) 193
- de Orbe, I., see del Olmo, M., 335 (1996) 23
- De Paoli, M.-A., see Sotomayor, M.D.P.T., 353 (1997) 275
- de Rooij, N.F., see Fiaccabrino, G.C., 326 (1996) 155
- de Rooij, N.F., see Fiaccabrino, G.C., 359 (1998) 263
- de Rooij, N.F., see Guenat, O.T., 361 (1998) 261
- de Rooij, N.F., see Jiménez, C., 351 (1997) 169
- de Rooij, N.F., see Michel, P.E., 392 (1999) 95
- De Santis, F., Allegrini, I., Fazio, M.C., Pasella, D. and Piredda, R., Development of a passive sampling technique for the determina-

- tion of nitrogen dioxide and sulphur dioxide in ambient air, 346 (1997) 127
- De Stefano, C., Gianguzza, A., Piazzese, D. and Sammartaus, S., Speciation of low molecular weight carboxylic ligands in natural fluids: protonation constants and association with major components of seawater of oxydiacetic and citric acids, 398 (1999) 103
- de Vicente-Pérez, S., see García-Armada, M.P., 316 (1995) 47
- de Villena, F.J.M., see Pita, M.T.P., 340 (1997) 89
- de Voogt, P., see Kozin, I.S., 354 (1997) 181
- de Vree, L.G., see Meulenberg, E.P., 399 (1999) 143
- Deadman, A.J. and Knee, P.C., Intercomparison of industrial nearinfrared diffuse reflectance measurements, 380 (1999) 401
- Deady, L.W., see Madden, J.E., 319 (1996) 127
- Deaker, M. and Maher, W., Low volume microwave digestion for the determination of selenium in marine biological tissues by graphite furnace atomic absorption spectroscopy, 350 (1997) 287
- Dean, J.R., see Makovskaya, V., 315 (1995) 183
- Dean, J.R., see Makovskaya, V., 315 (1995) 193
- Deasy, B., Bogan, D.P., Smyth, M.R., O'Kennedy, R. and Fuhr, U., Study of coumarin metabolism by human liver microsomes using capillary electrophoresis, 310 (1995) 101
- Decambox, P., see Moulin, C., 321 (1996) 121
- Decnop-Weever, L.G. and Kraak, J.C., Determination of sulphite in wines by gas-diffusion flow injection analysis utilizing spectrophotometric pH-detection, 337 (1997) 125
- Dee, S., see Croudace, I., 371 (1998) 217
- Defrancq, E., see Houdier, S., 382 (1999) 253
- Degn, H., see Kotiaho, T., 309 (1995) 317
- Degn, H., see Ørsnes, H., 390 (1999) 185
- Degrand, C., see Bordes, A.L., 356 (1997) 195
- Degrand, C., see Le Gal La Salle, A., 311 (1995) 301
- Degueldre, C. and Taibi, K., Polarographic behaviour and determination of uranium(VI) in alcoholic solutions from organic extraction phases, 321 (1996) 201
- Degueldre, C., Rocchiccioli, F. and Laube, A., Accelerated measurement of groundwater redox potentials: method and application, 396 (1999) 23
- Deguin, A., see Rivasseau, C., 394 (1999) 243
- Dehairs, F., see Vander Putten, E., 378 (1999) 261
- Del Carlo, C., see Ristori, C., 325 (1996) 151
- Del Carlo, M. and Mascini, M., Enzyme immunoassay with amperometric flow-injection analysis using horseradish peroxidase as a label. Application to the determination of polychlorinated biphenyls, 336 (1996) 167
- Del Carlo, M., Lionti, I., Taccini, M., Cagnini, A. and Mascini, M., Disposable screen-printed electrodes for the immunochemical detection of polychlorinated biphenyls, 342 (1997) 189
- Del Carlo, M., see Palchetti, I., 337 (1997) 315
- Del Carpio, C.A., see Bangov, I.P., 314 (1995) 101
- del Castilho, P., see Hu, Y., 373 (1998) 95
- del Castillo, B., see Sbai, M., 303 (1995) 47
- del Castillo, B., see Verdasco, G., 303 (1995) 73
- del Mar Cordero-Rando, M., Naranjo-Rodríguez, I. and Hidalgo Hidalgo de Cisneros, J.L., Voltammetric study of 2-methyl-4,6dinitrophenol at a modified carbon paste electrode, 370 (1998) 231

del Olmo, M., Diez, C., Molina, A., de Orbe, I. and Vilchez, J.L., Resolution of phenol, o-cresol, m-cresol and p-cresol mixtures by excitation fluorescence using partial least-squares (PLS) multivariate calibration, 335 (1996) 23

del Olmo, M., González-Casado, A., Navas, N.A. and Vilchez, J.L., Determination of bisphenol A (BPA) in water by gas chromatography-mass spectrometry, 346 (1997) 87

del Olmo, M., see Capitán-Vallvey, L.F., 302 (1995) 193

del Valle, M., see Alonso, J., 308 (1995) 115

del Valle, M., see Araújo, A., 310 (1995) 289

del Valle, M., see de Gracia, J., 348 (1997) 143

del Valle, M., see Jurkiewicz, M., 327 (1996) 243

del Valle, M., see Puig-Lleixà, C., 359 (1998) 311

del Valle, M., see Sanchez, J., 382 (1999) 157

Dela Rosa, A.M. and Kumakura, M., Trapping method of antibodies on surfaces of polymerizing discs for enzyme immunoassay, 312

Delalu, H., see Duriche, C., 395 (1999) 351

Delanghe, J., see Ouyang, J., 362 (1998) 113

Delanghe, J., see Ouyang, J., 386 (1999) 257

Delerue-Matos, C., see Lima, J.F., 385 (1999) 437

Delgado Zamarreño, M.M., Sánchez Pérez, A., Bustamante Rangel, M. and Hernández Méndez, J., Automated analysis for vitamin E in butter by coupling sample treatment - continuous membrane extraction - liquid chromatography with electrochemical detection, 386 (1999) 99

Delgado-Zamarreño, M.M., Sanchez-Perez, A., Gomez-Perez, M.C. and Hernandez-Mendez, J., Automatic determination of liposoluble vitamins in butter and margarine using Triton X-100 aqueous micellar solution by liquid chromatography with electrochemical detection, 315 (1995) 201

Dellavecchia, M.J., see Baker, S.A., 355 (1997) 113

DelViscio, J.A., see Lin, M., 307 (1995) 449

Dempsey, E., Diamond, D., Smyth, M.R., Urban, G., Jobst, G., Moser, I., Verpoorte, E.M.J., Manz, A., Widmer, H.M., Rabenstein, K. and Freaney, R., Design and development of a miniaturised total chemical analysis system for on-line lactate and glucose monitoring in biological samples, 346 (1997) 341

Dempster, M.A., MacDonald, B.F., Gemperline, P.J. and Boyer, N.R., A near-infrared reflectance analysis method for the noninvasive identification of film-coated and non-film-coated, blister-packed tablets, 310 (1995) 43

Demuth, C. and Spichiger, U.E., Response function and analytical parameters of nitrite-selective optode membranes in absorbance and fluorescence mode, 355 (1997) 259

Demuth, C., see Zhang, W., 375 (1998) 211

den Das, J., see de Jong, J.T.M., 377 (1998) 113

den Nieuwenboer, H.C.M., see Steijger, O.M., 320 (1996) 99

Deng, A., see Skládal, P., 399 (1999) 29

Deng, J., see Chen, X., 382 (1999) 189

Deng, J., see Liu, B., 386 (1999) 31

Deng, J., see Liu, Z., 392 (1999) 135

Deng, L., see Kang, C., 329 (1996) 83

Denizli, A., see Salih, B., 371 (1998) 177

Denner, B.F., see van Tonder, N., 380 (1999) 285

Dennis, J., see Martin, G.J., 321 (1996) 137

Dennis, M.J., see Rossmann, A., 340 (1997) 21

Depledge, M.H., see Lundebye, A.-K., 311 (1995) 109

De-qiang, Z. and Zhe-ming, N., Separation and determination of trace inorganic germanium in β-carboxyethylgermanium sesquioxide by filtration chromatography and hydride generation-graphite furnace atomic absorption spectrometry, 330 (1996) 53

Derendyaev, B.G., see Piottukh-Peletsky, V.N., 396 (1999) 99

Derome, J., see Jauhiainen, T., 389 (1999) 21

Derome, K., see Jauhiainen, T., 389 (1999) 21

Derrick, M., see Schulz, H., 316 (1995) 145

Desideri, P., see Lepri, L., 317 (1995) 149

Desiderio, D.M., Analysis of endogenous neuropeptides by reversed-phase high-performance chromatography and mass spectrometry, 352 (1997) 85

Desiderio, D.M., see Lee, H.G., 383 (1999) 79

Desimoni, E., see Casella, I.G., 335 (1996) 217

Desimoni, E., see Casella, I.G., 354 (1997) 333

Desimoni, E., see Cataldi, T.R.I., 310 (1995) 257

Despas, C., see Walcarius, A., 385 (1999) 79

Despić, A.R., see Zejnilović, R.M., 327 (1996) 107

Desrosiers, M.F., see Nagy, V.Y., 339 (1997) 31

Desrosiers, M.F., see Nagy, V.Y., 339 (1997) 53

Desyaterik, I.V., see Papkovsky, D.B., 310 (1995) 233

Deulofeu, R., see Bedini, J.L., 305 (1995) 304

Devereaux, H.A., see Akhtar, P., 381 (1999) 49

Devi, S., see Shah, R., 341 (1997) 217

DeVitre, R., see Davison, W., 377 (1998) 193

Devynck, J., see Bedioui, F., 341 (1997) 177

Dewaele, C., see Overbeke, A.V., 346 (1997) 183

Dewaele, C., see Van Overbeke, A., 321 (1996) 245

Dewald, H.D., see Petrovic, S.C., 357 (1997) 33

Dexu, Z., see Genxi, L., 319 (1996) 275

Deyao, Q., see Haiying, L., 329 (1996) 97

Deyao, Q., see Haiying, L., 344 (1997) 187

Deyl, Z., Mikšík, I., Zicha, J. and Jelínková, D., Reversed-phase chromatography of pentosidine-containing CNBr peptides from collagen, 352 (1997) 257

Deyl, Z., see Hamrníková, I., 372 (1998) 257

Dezhong, L., Kang, C., Aifeng, Y., Kai, G., Lihua, N. and Shouzhuo, Y., Theory of the surface acoustic wave/impedance sensor system and its application to the end-point determination in titrimetry, 320 (1996) 245

Dezhong, L., Yongzhong, L., Lihua, N. and Shouzhuo, Y., Rapid detection of \( \ell\_{\text{-glutamic}} \) acid using a series-electrode piezoelectric quartz crystal sensor, 313 (1995) 229

Dhorda, U.J., see Bari, V.R., 376 (1998) 221

Dhorda, U.J., see Patel, Y., 362 (1998) 271

Dhulster, P., see Ruckebusch, C., 396 (1999) 241

Di Benedetto, L.T., Alexander, P.W. and Hibbert, D.B., Portable battery-powered flow injection analyser for volatile alcohols using semiconductor gas sensors, 321 (1996) 61

di Camillo, A., see Shaw, A.D., 348 (1997) 357

Di Natale, C., Paolesse, R., Macagnano, A., Troitsky, V.I., Berzina, T.S. and D'Amico, A., Pattern recognition approach to the study of the interactions between metalloporphyrin Langmuir-Blodgett films and volatile organic compounds, 384 (1999) 249

Di Natale, C., see Brunink, J.A.J., 325 (1996) 53

Di Palo, V., see Possanzini, M., 315 (1995) 225

Di Sario, S., see Cremisini, C., 311 (1995) 273

Diamond, D., see Bakker, E., 393 (1999) 11

Diamond, D., see Dempsey, E., 346 (1997) 341

Diamond, D., see Fang, T., 305 (1995) 347

Diamond, D., see Grady, T., 336 (1996) 1

Diamond, D., see Hartnett, M.K., 316 (1995) 347

Diamond, D., see O'Neill, S., 398 (1999) 1

Diamond, H., see Horwitz, E.P., 310 (1995) 63

Dias Filho, N.L., Gushikem, Y. and Polito, W.L., 2-Mercaptobenzothiazole clay as matrix for sorption and preconcentration of some heavy metals from aqueous solution, 306 (1995) 167

Dias Filho, N.L., see Lessi, P., 327 (1996) 183

Diaz Ricci, J.C., see Amárita Vega, F., 373 (1998) 57

Díaz, A.N., Sanchez, F.G. and García, J.A.G., Hydrogen peroxide assay by using enhanced chemiluminescence of the luminol-H<sub>2</sub>O<sub>2</sub>-horseradish peroxidase system: Comparative studies, 327 (1996) 161

Díaz, A.N., Sánchez, F.G., Lovillo, J. and García, J.A.G., Enhanced chemiluminescence kinetic ELISA of dichlorprop methyl ester, 321 (1996) 213

Díaz, A.N., see Sánchez, F.G., 310 (1995) 399

Diaz, T.G., see Cabanillas, A.G., 302 (1995) 9

Díaz, T.G., see Guiberteau, A., 305 (1995) 219

Diaz-García, M.E., see Costa-Fernández, J.M., 360 (1998) 17

Dietz, M.L., see Horwitz, E.P., 310 (1995) 63

Dietze, H.J., see Becker, J.S., 387 (1999) 145

Dietze, H.-J., see Panday, V.K., 329 (1996) 153

Diez, C., see del Olmo, M., 335 (1996) 23

Díez, S., Pu, Z., Daunert, S. and Valiente, M., Immobilized softmetal affinity system for amino acids based on an 8-hydroxyquinoline-Pd(II) complex; characterization using glycine as a model, 315 (1995) 339

Dilli, S. and Tong, P., Liquid chromatography of metal chelates. Chromatographic studies of homologous dialkyldithiocarbamates. 395 (1999) 101

Dimandja, J.M.D., Kaljurand, M., Phillips, J.B. and Valentín, J., Maximum entropy chromatogram reconstruction, 371 (1998) 1

Dimitrakopoulos, T., see Farrell, J.R., 334 (1996) 133

Dimitrakopoulos, T., see Farrell, J.R., 335 (1996) 111

Dimotikali, D., see Papadopoulos, K., 304 (1995) 91

Dimov, N. and Osman, A., Selection of molecular descriptors used in quantitative structure–gas chromatographic retention relationships II. Isoalkanes and alkenes, 323 (1996) 15

Dinc, E. and Onur, F., Application of a new spectrophotometric method for the analysis of a ternary mixture containing metamizol, paracetamol and caffeine in tablets, 359 (1998) 93

Ding, Q., Small, G.W. and Arnold, M.A., Evaluation of nonlinear model building strategies for the determination of glucose in biological matrices by near-infrared spectroscopy, 384 (1999) 333

Ding, Y., see Yang, J., 363 (1998) 105

Diniz, M.C.T., see Oliveira, A.F., 366 (1998) 281

Dinsmore, A., see Burns, D. Thorburn, 362 (1998) 171

diSioudi, B.D., see Simonian, A.L., 389 (1999) 189

Ditzler, M.A., Hallen, C.P. and Carmody, J.L., The impact of tether hydrophobicity on stoichiometry of immobilized indicator-analyte complexes, 316 (1995) 391 Divjak, B., Moder, M. and Zupan, J., Chemometrics approach to the optimization of ion chromatographic analysis of transition metal cations for routine work, 358 (1998) 305

Dixon, D.R., see Towler, P.H., 328 (1996) 53

Dixon, K., see Teasdale, P.R., 367 (1998) 201

Djane, N.-K., Malcus, F., Martins, E., Sawula, G. and Johansson, G., Hollow fiber cartridges for removal of particulate matter from natural waters prior to matrix isolation and trace metal enrichment using an 8-quinolinol chelating ion exchanger in a flow system, 316 (1995) 305

Djane, N.-K., see Malcus, F., 327 (1996) 295

Djogić, R. and Branica, M., Square-wave cathodic stripping voltammetry of hydrolyzed uranyl species, 305 (1995) 159

Dmitrienko, S.G., Goncharova, L.V., Zhigulev, A.V., Nosov, R.E., Kużmin, N.M. and Zolotov, Y., Sorption-photometric determination of ascorbic acid using molybdosilicic heteropolyacid and polyurethane foam after microwave irradiation, 373 (1998) 131

do Carmo Hespanhol da Silva, M. and Pasquini, C., Bisegmented flow system for determination of low concentrations of gaseous constituents in gaseous samples, 393 (1999) 121

do Carmo Hespanhol da Silva, M., Rohwedder, J.J.R. and Pasquini, C., Determination of CO<sub>2</sub> in gaseous samples using a monosegmented flow system and conductimetric detection, 366 (1998) 223

do Lago, C.L., Juliano, V.F. and Kascheres, C., Applying moving median digital filter to mass spectrometry and potentiometric titration, 310 (1995) 281

do Lago, C.L., see Mioshi, R.N., 334 (1996) 271

Dobay, R., Harsányi, G. and Visy, C., Detection of uric acid with a new type of conducting polymer-based enzymatic sensor by bipotentiostatic technique, 385 (1999) 187

Dobberpuhl, D.A., Hoekstra, J.C. and Johnson, D.C., Pulsed electrochemical detection at gold electrodes applied to monoamines and diamines following their chromatographic separation, 322 (1996) 55

Doblhoff-Dier, O., see Matsui, J., 343 (1997) 1

Dobrova, N.B., see Ivanchenko, M.I., 314 (1995) 23

Dodson, W.S., see Jiansheng, H., 311 (1995) 115

Dogterom, J., see Meulenberg, E.P., 399 (1999) 143

Doherty, A.P. and Vos, J.G., Three-dimensional plots from osmium redox-polymer based electrochemical sensors, 344 (1997) 159

Doherty, A.P., Stanley, M.A., Leech, D. and Vos, J.G., Oxidative detection of nitrite at an electrocatalytic [Ru(bipy)<sub>2</sub>poly-(4-vinylpyridine)<sub>10</sub>Cl]Cl electrochemical sensor applied for the flow injection determination of nitrate using a Cu/Cd reductor column, 319 (1996) 111

Doherty, S., see Seitz, W. Rudolf, 400 (1999) 55

Doku, G.N. and Haswell, S.J., Further studies into the development of a micro-FIA (μFIA) system based on electroosmotic flow for the determination of phosphate as orthophosphate, 382 (1999) 1

Dolara, I., see Arranz, A., 389 (1999) 225

Dölling, R., see Bier, F.F., 344 (1997) 119

Domènech, X., see Torrades, F., 333 (1996) 139

Domingo, N., see He, C., 383 (1999) 185

Domingues, R., see Castillo, M., 353 (1997) 133

Dominguez, E., see Parellada, J., 330 (1996) 71

Dominguez, F.B., see Martinez, R.C., 336 (1996) 47

Dominik, J., see Guéguen, C., 386 (1999) 155

Domínguez, E., see Parellada, J., 362 (1998) 47

Donachie, A., Walmsley, A.D. and Haswell, S.J., Application and comparisons of chemometric techniques for calibration modelling using electrochemical/ICP-MS data for trace elements in UHQ water and humic acid matrices, 378 (1999) 235

Donard, O.F.X., see Amouroux, D., 377 (1998) 241

Dondi, F., see Contado, C., 345 (1997) 99

Doneanu, C., see Dumitrescu, V., 333 (1996) 181

Dong Liu, X., see Zhi Huang, C., 375 (1998) 89

Dong, J.J., see Tong, A.J., 390 (1999) 125

Dong, L., Meruva, R.K., Brown, R.B. and Meyerhoff, M.E., Enhancing EMF stability of solid-state ion-selective sensors by incorporating lipophilic silver-ligand complexes within polymeric films, 321 (1996) 173

Dong, S., see Zhang, J., 388 (1999) 71

Dong, Y., see Xu, Z., 397 (1999) 73

Dong-mei, Z., Hui-Qun, F., Hong-yuan, C., Huang-xian, J. and Yun, W., The electrochemical polymerization of methylene green and its electrocatalysis for the oxidation of NADH, 329 (1996) 41

Dongré, A.R. and Hayward, M.J., Characterization of a membrane interface designed for analytical scale sample introduction into a mass spectrometer, 327 (1996) 1

Dongxing, Y. and Shuttler, I.L., Flow-injection column preconcentration directly coupled with electrothermal atomization atomic absorption spectrometry for the determination of aluminium. Comparison of column packing materials, 316 (1995)

Donten, M., see Cakała, M., 379 (1999) 209

Donten, M., see Jaworski, A., 305 (1995) 106

Dontha, N., see Joseph, W., 344 (1997) 111

Dontha, N., see Wang, J., 332 (1996) 139

Dontha, N., see Wang, J., 337 (1997) 41

Dontha, N., see Wang, J., 347 (1997) 1

Doo, S.S., see Min, J.C., 315 (1995) 311

Doolan, K., see Burns, D.T., 349 (1997) 333

Dorado, M.T., see Coedo, A.G., 340 (1997) 31 Dorado, T., see Coedo, A.G., 389 (1999) 247

Dordick, J.S., see Kim, J., 370 (1998) 251

dos Reis, B.F., see Giné, M.F., 323 (1996) 47

dos Santos, M.M.C., see da Conceição, A.C.L., 302 (1995) 97

Doscotch, M.A., Jones, J.A. and Welch, L.E., Indirect adsorption detection: An alternative pulsed electrochemical detection waveform, 344 (1997) 55

Dosortzev, V., see Tzur, D., 392 (1999) 307

Doss, F., see Ranville, J.F., 381 (1999) 315

Douroumis, D., see Kontoyannis, C.G., 391 (1999) 83

Dovis, M., see Piras, L., 335 (1996) 127

Downard, A.J., Lenihan, R.J., Simpson, S.L., O'Sullivan, B. and Powell, K.J., The aluminium(III)-4-nitrocatechol system: potentiometry, voltammetry and application to the determination of reactive Al(III), 345 (1997) 5

Downard, A.J., Powell, K.J. and Money, S.D., Speciation determination of aluminium (Al<sup>3+</sup>) by flow injection amperometry via the 1,2-dihydroxyanthraquinone-3-sulfonic acid complex, 349 (1997) 111

Downard, A.J., Roddick, A.D. and Bond, A.M., Covalent modification of carbon electrodes for voltammetric differentiation of dopamine and ascorbic acid, 317 (1995) 303

Downard, A.J., see Akhtar, P., 381 (1999) 49

Dozortsev, V., see Kirowa-Eisner, E., 359 (1998) 115

Dragojević, D., see Vedrina-Dragojević, I., 355 (1997) 151

Drakopoulos, A.I. and Ioannou, P.C., Spectrofluorimetric study of the acid-base equilibria and complexation behavior of the fluoroquinolone antibiotics ofloxacin, norfloxacin, ciprofloxacin and pefloxacin in aqueous solution, 354 (1997) 197

Draxler, S., see Mohr, G.J., 360 (1998) 119

Dressler, V.L., Pozebon, D. and Curtius, A.J., Introduction of alcohols in inductively coupled plasma mass spectrometry by a flow injection system, 379 (1999) 175

Dreux, M., see Salvador, A., 359 (1998) 57

Dreveny, D., Klammer, C., Michalowsky, J. and Gübitz, G., Flowinjection- and sequential-injection immunoassay for triiodothyronine using acridinium ester chemiluminescence detection, 398 (1999) 183

Drost, S., see Uttenthaler, E., 362 (1998) 91

Drummond, L. and Maher, W., Determination of phosphorus in aqueous solution via formation of the phosphoantimonylmolybdenum blue complex Re-examination of optimum conditions for the analysis of phosphate, 302 (1995) 69

Drungiliene, A., see Wollenberger, U., 329 (1996) 231

Drzewicz, P., see Pyrzyńska, K., 363 (1998) 141

Drzewińska, A., see Wieteska, E., 330 (1996) 251

du Plessis, H., see van Staden, J.F., 354 (1997) 59

du Plessis, H., see van Staden, J.F., 357 (1997) 141Du, H. and Stillman, M.J., Automation of gas chromatography instruments. Part I. Automated peak identification in the chromatograms of standard test mixtures, 354 (1997) 65

Du, H. and Stillman, M.J., Automation of gas chromatography instruments. Part II. A knowledge-based system for performance assessment, 354 (1997) 77

Du, Q., see Bell, S.E., 303 (1995) 163

Duan, L.M., see Li, Z.Q., 382 (1999) 165

Duan, Q., see Bao, L., 369 (1998) 139

Duarte, A.C., see Gomes, M.T., 327 (1996) 95

Duarte, A.C., see Gomes, M.T.S.R., 335 (1996) 235

Duarte, A.C., see Santos, E.B., 392 (1999) 333

Duarte, E.S., see Zanoni, M.V.B., 385 (1999) 385

Duarte, M.M.M.B., Neto, G.d.O., Kubota, L.T., Filho, J.L.L., Pimentel, M.F., Lima, F. and Lins, V., Application of factorial design to improve a FIA system for penicillin determination, 350 (1997) 353

Duarte, R., see de Maria, C.G., 309 (1995) 241

Ducey Jr., M.W., Smith, A.M., Guo, X. and Meyerhoff, M.E., Competitive nonseparation electrochemical enzyme binding/ immunoassay (NEEIA) for small molecule detection, 357 (1997) 5

Dufresne, C., see Tsipouras, A., 316 (1995) 161

Dugo, G., see Campisi, B., 312 (1995) 199

Dukhovich, A., Rodriguez, M.J., Gaona, L.G., Levashov, A. and Ugarova, N., Interaction of long-chain choline derivatives with firefly luciferase and their use as reagents for the extraction of intracellular ATP from microorganisms, 303 (1995) 85 Dumazet, I., see Mlika, R., 354 (1997) 283

Dumitrescu, D., see Pop, H.F., 310 (1995) 269

Dumitrescu, V., Surmeian, M., Doneanu, C. and Stanescu, S., Computer program for the determination of salicylic acid content in aspirin by derivative spectrometry, 333 (1996) 181

Dumler-Gradl, R., see Vierle, O., 393 (1999) 131

Dunbar, R.A., see Jordan, J.D., 332 (1996) 83

Duncan, A.L., see Davidson, C.M., 363 (1998) 45

Duncan, J., see Lack, B., 385 (1999) 393

Dunemann, L., see Begerow, J., 340 (1997) 277

Dunemann, L., see O'Keeffe, M., 306 (1995) 91

Dunford, M.D., see Burns, D.T., 319 (1996) 205

Dunford, M.D., see Burns, D.T., 334 (1996) 209

Dunford, M.D., see Thorburn Burns, D., 356 (1997) 1411

Dunkerley, S., see Zissis, K.D., 384 (1999) 71

Duponchel, L., see Dupuy, N., 335 (1996) 79

Duponchel, L., see Ruckebusch, C., 396 (1999) 241

Dupuy, N., Ruckebush, C., Duponchel, L., Beurdeley-Saudou, P., Amram, B., Huvenne, J.P. and Legrand, P., Quantitative determination of polymer and mineral content in paper coatings by infrared spectroscopy. Improvements by non-linear treatments, 335 (1996) 79

Durand, J.S., see Martinez-Izquierdo, M.E., 325 (1996) 81

Durani, S., see Satyanarayana, K., 376 (1998) 273

Duriche, C., Peyrot, L., Berthet, J., Elkhatib, M. and Delalu, H., A derivatization method for the determination of amines in alkaline medium, 395 (1999) 351

Durliat, H., see Gilis, M., 355 (1997) 235

Durst, R.A., see Lee, M., 354 (1997) 23

Durst, R.A., see Siebert, S.T.A., 311 (1995) 309

Dürüst, N., see Abdülkadir Akay, M., 392 (1999) 343

Dürüst, Y.v., see Abdülkadir Akay, M., 392 (1999) 343

Dyson, R.M., Kaderli, S., Lawrance, G.A., Maeder, M. and Zuberbühler, A.D., Second order global analysis: the evaluation of series of spectrophotometric titrations for improved determination of equilibrium constants, 353 (1997) 381

Dyson, R.P., see Wang, X.D., 368 (1998) 105

Dyukarev, S.S., see Zolotov, Y.A., 308 (1995) 386

Dzantiev, B.B., see Yazynina, E.V., 399 (1999) 151

Dzantiev, B.B., see Zherdev, A.V., 347 (1997) 131

Dzgoev, A., Mecklenburg, M., Xie, B., Miyabayashi, A., Larsson, P.-O. and Danielsson, B., Optimization of a charge coupled device imaging enzyme linked immuno sorbent assay and supports for the simultaneous determination of multiple 2,4-D samples, 347 (1997) 87

Dziegielewski, K., see Leszczyńska, E., 368 (1998) 205

Dziwulska, J., see Koncki, R., 385 (1999) 451

Dzyadevich, S.V., Arkhipova, V.N., Soldatkin, A.P., El'skaya, A.V. and Shul'ga, A.A., Glucose conductometric biosensor with potassium hexacyanoferrate(III) as an oxidizing agent, 374 (1998) 11

## B

Early, E.A. and O'Brian, T.R., NIST transmission density instrument, 380 (1999) 143 Eaton, S., see Myler, S., 357 (1997) 55

Ebdon, L., Foulkes, M. and O'Hanlon, K., Optimised simultaneous multi-element analysis of environmental slurry samples by inductively coupled plasma atomic emission spectrometry using a segmented array charge-coupled device detector, 311 (1995) 123.

Ebdon, L., see Louise Armstrong, H.E., 390 (1999) 245

Eberini, I., see Gianazza, E., 372 (1998) 99

Ebihara, M., see Shinotsuka, K., 338 (1997) 237

Ebisuya, H., see Fukaya, M., 306 (1995) 231

Eccles, H., see Yong, P., 329 (1996) 173

Eckert, H., see Koller, M., 352 (1997) 31

Eckert, J.M. and Hajinakitas, J.G., Selective coprecipitation of colloidal manganese(IV) oxide, 315 (1995) 239

Economou, A. and Fielden, P.R., Digital filtering in stripping analysis, 305 (1995) 165

Economou, A., Fielden, P.R. and Packham, A.J., Wiener filtering of electroanalytical data by means of fast Fourier transform, 319 (1996) 3

Edel, H., Quick, L. and Cammann, K., Simultaneous multielement determination in complex matrices using frequency-modulated electrothermal atomic absorption spectrometry, 310 (1995) 181

Edmiston, P.L., see Phimphivong, S., 307 (1995) 403

Effkemann, S., Pinkernell, U. and Karst, U., Peroxide analysis in laundry detergents using liquid chromatography, 363 (1998) 97

Efremov, E.E., see Sakharov, I.Y., 319 (1996) 265

Efstathiou, C.E., see Lianidou, E.S., 320 (1996) 107

Efstathiou, C.E., see Veiopoulou, C.J., 335 (1996) 177

Efstathiou, C.E., see Zoulis, N.E., 320 (1996) 255

Egamino, J., see Brennan, J.D., 336 (1996) 157

Egan, O., see O'Neill, S., 398 (1999) 1

Egawa, A., see Choi, K.J., 386 (1999) 229

Egawa, T., see Nomura, T., 339 (1997) 187

Egberink, R.J., see Lugtenberg, R.J., 357 (1997) 225

Egberink, R.J.M., see Antonisse, M.M.G., 332 (1996) 123

Egelhaaf, H.-J., see Uhl, S., 303 (1995) 17

Eggins, B.R., Hickey, C., Toft, S.A. and Zhou, D.M., Determination of flavanols in beers with tissue biosensors, 347 (1997) 281

Eghbaldar, A., Forrest, T.P. and Cabrol-Bass, D., Development of neural networks for identification of structural features from mass spectral data., 359 (1998) 283

Ehrat, M., Foreword, 393 (1999) 1

Ehrentreich, F., Joined knowledge- and signal processing for infrared spectrum interpretation, 393 (1999) 193

Ehrentreich-Förster, E., see Bier, F.F., 328 (1996) 27

Ehrentreich-Förster, E., see Bier, F.F., 344 (1997) 119

Ehrhardt, M.G., see Traulsen, F., 392 (1999) 19

Eiceman, G.A., see Bell, S.E., 303 (1995) 163

Eiceman, G.A., see Snyder, A.P., 316 (1995) 1 Eiceman, G.A., see Young, D., 381 (1999) 69

Eiceman, G.A., Yuan-Feng, W., Garcia-Gonzalez, L., Harden, C.S. and Shoff, D.B., Enhanced selectivity in ion mobility spectrometry analysis of complex mixtures by alternate reagent gas chemistry, 306 (1995) 21

Eiguren Fernández, A., Sosa Ferrera, Z. and Santana Rodríguez, J.J., Determination of polychlorinated biphenyls by liquid chromatography following cloud-point extraction, 358 (1998) 145 Eischen, J.M., see Novotny, F.J., 392 (1999) 319

Eiteman, M.A. and Chastain, M.J., Optimization of the ionexchange analysis of organic acids from fermentation, 338 (1997) 69

Ejem, M., see Berset, J.D., 383 (1999) 263

Ekdahl, A. and Abrahamsson, K., A simple and sensitive method for the determination of volatile halogenated organic compounds in sea water in the amol l<sup>-1</sup> to pmol l<sup>-1</sup> range, 357 (1997) 197

Ekkad, N. and Huber, C.O., A coulometer for determination of residual sulfite following the dechlorination of water, 332 (1996) 155

Eklöv, T., Mårtensson, P. and Lundström, I., Enhanced selectivity of MOSFET gas sensors by systematical analysis of transient parameters, 353 (1997) 291

Eklöv, T., Mårtensson, P. and Lundström, I., Selection of variables for interpreting multivariate gas sensor data, 381 (1999) 221

Eksperiandova, L.P., Fokina, I.I., Blank, A.B., Ivkova, T.I. and Soukhomlinov, B.P., Determination of small quantities of phenol in water, 396 (1999) 317

Eksperiandova, L.P., Makarovska, Y.N. and Blank, A.B., Determination of small quantities of heavy metals in water-soluble salts and natural water by X-ray fluorescence, 371 (1998) 105

El Aamrani, F.Z., Kumar, A., Cortina, J.L. and Sastre, A.M., Solvent extraction of copper(II) from chloride media using N-(thiocarbamoyl)benzamidine and N-benzoylthiourea derivatives, 382 (1999) 205

El Aamrani, F.Z., Sastre, A., Aguilar, M., Beyer, L. and Florido, A., Iodide-selective electrodes based on the silver(I) complex of a novel N-thiocarbamoylimine-dithioether derivative, 329 (1996) 247

El Bergmi, R., see Molina, M.F., 389 (1999) 281

El Khakani, M.A., see Silva, P.R.M., 385 (1999) 249

El Murr, N., see Boujtita, M., 319 (1996) 91 El Murr, N., see Charpentier, L., 318 (1995) 89

El Muli, N., see Charpentiel, L., 516 (1995) 69

El'skaya, A.V., see Dzyadevich, S.V., 374 (1998) 11

El'skaya, A.V., see Piletskaya, E.V., 391 (1999) 1

El'skaya, A.V., see Sergeyeva, T.A., 391 (1999) 289 El'skaya, A.V., see Sergeyeva, T.A., 392 (1999) 105

El'skaya, A.V., see Volotovsky, V., 322 (1996) 77

El-Aziz, M.S.-A., see El-Maali, N.A., 353 (1997) 313

El-Bahnasawy, R.M., see Hassan, S.S.M., 351 (1997) 91

Elbergali, A., Nygren, J. and Kubista, M., An automated procedure to predict the number of components in spectroscopic data, 379 (1999) 143

Elci, L., see Soylak, M., 322 (1996) 111

Elkhatib, M., see Duriche, C., 395 (1999) 351

El-Khattabi, R., see Luis Vilchez, J., 371 (1998) 247

El-kosasy, A.M., see Hassan, S.S., 363 (1998) 81

Ellison, S.L. and Gregory, S.L., Predicting chance infrared spectroscopic matching frequencies, 370 (1998) 181

Ellison, S.L., see Barwick, V.J., 394 (1999) 281

El-Maali, N.A., Temerk, Y.M. and El-Aziz, M.S.-A., Application of stripping voltammetry at a static mercury drop electrode for the determination of aluminium and iron in Portland cement, 353 (1997) 313

Elmgren, M., see Larsson, T., 331 (1996) 207

Elmosallamy, M.A., see Hassan, S.S., 378 (1999) 299

EL-Rabbat, N., see Darwish, I., 365 (1998) 121

El-Sayed, A.Y., see Zaki, M.T.M., 307 (1995) 127

El-Shahawi, M.S. and Aldhaheri, S.M., Preconcentration and separation of acaricides by polyether based polyurethane foam, 320 (1996) 277

El-Shahawi, M.S. and Farag, A.B., Iodometric determination of gold and platinum by 168- and 126-fold chemical amplification reactions, 307 (1995) 139

El-Shahawi, M.S., Extraction equilibrium of the ion-associate of periodate with amiloride hydrochloride and simultaneous spectrophotometric determination of periodate and iodate by liquidliquid extraction, 356 (1997) 85

El-Shahawi, M.S., see Burns, D.T., 322 (1996) 107

El-Shaikh, A., see Ronot-Trioli, C., 319 (1996) 121

Elsholz, O., Low-budget flow-injection device for teaching: A \$10 six-port valve, 366 (1998) 217

El'skaya, A.V., see Piletskaya, E.V., 398 (1999) 49

Elwood, S.A., see Simeonsson, J.B., 397 (1999) 33

Elyashberg, M.E., Gribov, L.A., Karasev, Y.Z. and Martirosian, E.R., IR quantitative analysis of organic mixtures without any calibration, 353 (1997) 105

Elyashberg, M.E., Karasev, Y. and Martirosian, E.R., Spectroscopic determination of elemental composition of organic compounds with the aid of the X-PERT system, 388 (1999) 353

Elyashberg, M.E., Karasev, Y.Z., Martirosian, E.R., Thiele, H. and Somberg, H., Expert systems as a tool for the molecular structure elucidation by spectral methods. Strategies of solution to the problems, 348 (1997) 443

Elyashberg, M.E., Martirosian, E.R., Karasev, Y.Z., Thiele, H. and Somberg, H., X-PERT: a user-friendly expert system for molecular structure elucidation by spectral methods, 337 (1997) 265

Elyashberg, M.E., see Gribov, L.A., 316 (1995) 217

El-Yazbi, F.A., see Wintersteiger, R., 306 (1995) 273

El'skaya, A.V., see Sergeyeva, T.A., 390 (1999) 73

Emara, S., see Razee, S., 356 (1997) 1

Emnéus, J., see Lindgren, A., 347 (1997) 51

Emnéus, J., see Lutz, M., 305 (1995) 8

Emnéus, J., see Nistor, C., 387 (1999) 309

Emnéus, J., see Ruzgas, T., 311 (1995) 245 Emnéus, J., see Ruzgas, T., 330 (1996) 123

Emnéus, J., see Yaropolov, A.I., 308 (1995) 137

Emons, H., see León, C., 356 (1997) 99

Emons, H., see Pinilla Gil, E., 389 (1999) 9

Emteborg (b. Stigbrand), M., Irgum, K., Gooijer, C. and Brinkman, U.A., Peroxyoxalate chemiluminescence in aqueous solutions: Coupling of immobilized enzyme reactors and 1,1'-oxalyldiimidazole chemiluminescence reaction to flow-injection analysis and liquid chromatographic systems, 357 (1997) 111

Emteborg (b. Stigbrand), M., see Jonsson, T., 361 (1998) 205

Endo, H., see Jae Shin, S., 364 (1998) 159

Endo, H., see Takenaka, M., 336 (1996) 151

Endo, K., see Igarashi, S., 320 (1996) 133

Endo, M., Suzuki, K. and Abe, S., Novel preconcentration technique for trace metal ions by aggregate film formation. Spectrophotometric determination of copper(II), 364 (1998) 13

Engbersen, J.F., see Lugtenberg, R.J., 357 (1997) 225

Engbersen, J.F.J., see Antonisse, M.M.G., 332 (1996) 123

Engbersen, J.F.J., see Lugtenberg, R.J.W., 310 (1995) 263

Engebretson, R.R., see Yates III, L.M., 356 (1997) 295

Engström, A., see Kuban, P., 337 (1997) 117

Engström, E., Jönebring, I. and Karlberg, B., Assessment of a screening method for metals in seawater based on the nonselective reagent 4-(2-pyridylazo)resorcinol (PAR), 371 (1998) 227

Enju, W., Guozhi, W., Ma, L., Stivanello, C.M., Lam, S. and Patel, H., Optical films for protamine detection with lipophilic dichlorofluorescein derivatives, 334 (1996) 139

Ensafi, A.A. and Kazemzadeh, A., Simultaneous determination of nitrite and nitrate in various samples using flow injection with spectrophotometric detection, 382 (1999) 15

Enzelberger, M.M., see Zocher, F., 391 (1999) 345

Ephraim, J.H., see Marinsky, J.A., 302 (1995) 309

Erdosy, M., see Cosofret, V.V., 314 (1995) 1

Eremeev, N.L. and Kukhtin, A.V., Stimuli-sensitive hydrogel material for biosensor-chemical trigger, 347 (1997) 27

Eremenko, A., see Makower, A., 357 (1997) 13

Eremenko, A.V., G. Bauer, C., Makower, A., Kanne, B., Baumgarten, H. and Scheller, F.W., The development of a non-competitive immunoenzymometric assay of cocaine, 358 (1998) 5

Eremenko, A.V., see Bier, F.F., 344 (1997) 119

Eremin, S., see Bjarnason, B., 347 (1997) 111

Eremin, S.A., see Fránck, M., 311 (1995) 349

Eremin, S.A., see García Sánchez, F., 378 (1999) 219

Eremin, S.A., see García Sánchez, F., 395 (1999) 133

Eremin, S.A., see Medyantseva, E.P., 347 (1997) 71

Erickson, M.D., see Aldstadt, J.H., 319 (1996) 135

Erickson, M.D., see Neal, T.J., 322 (1996) 11

Erk, M. and Raspor, B., Evaluation of cadmium-metallothionein stability constants based on voltammetric measurements, 360 (1998) 189

Erkang, W., see Ying, W., 338 (1997) 97

Erkang, W., see Zhiming, L., 345 (1997) 147

Erkelens, C., see Geerdink, M.J., 315 (1995) 159

Erni, F., see Heyden, Y.V., 316 (1995) 15

Erni, F., see Wu, W., 329 (1996) 257

Erra, P., see Alzaga, R., 381 (1999) 39

Errachid, A., see Casabó, J., 320 (1996) 63

Ershova, N.I. and Ivanov, V.M., Diffuse reflection spectroscopy of indium sorbates with immobilized heterocyclic azo compounds, 364 (1998) 235

Escandar, G.M. and Muñoz de la Peña, A., Room-temperature phosphorescence of acenaphthene in aerated solutions in the presence of bromoalcohols and γ-cyclodextrin, 370 (1998) 199

Escobar, M.E., see Alciaturi, C.E., 340 (1997) 233

Escobar, M.E., see Alciaturi, C.E., 376 (1998) 169

Escobar, M.P., Smith, B.W. and Winefordner, J.D., Determination of metallo-organic species in lubricating oil by electrothermal vaporization inductively coupled plasma mass spectrometry, 320 (1996) 11

Escott, R.E., see Zissis, K.D., 384 (1999) 71

Escriche, L., see Casabó, J., 320 (1996) 63

Escriche, L., see Pérez-Jiménez, C., 371 (1998) 155

Escuriola, M.J., Morales-Rubio, A. and de la Guardia, M., A clean analytical method for the spectrophotometric determination of formetanate incorporating an on-line microwave assisted hydrolysis step, 390 (1999) 147

Espinosa-Mansilla, A., Acedo Valenzuela, M.I., Salinas, F. and Cañada Cañada, F., Kinetic determination of ansamicins in pharmaceutical formulations and human urine. Manual and semiautomatic (stopped-flow) procedures, 376 (1998) 365

Espinosa-Mansilla, A., Merás, I.D. and López, F.S., Kinetic behaviour of the malonaldehyde-thiobarbituric acid reaction. Kinetic-fluorimetric determination of malonaldehyde in human serum, 320 (1996) 125

Espinosa-Mansilla, A., Salinas, F. and Paya, I.D.O., Simultaneous determination of sulfadiazine, doxycycline, furaltadone and trimethoprim by partial least squares multivariate calibration, 313 (1995) 103

Espinosa-Mansilla, A., see Cabanillas, A.G., 302 (1995) 9

Esquivel, S., see Kwak, E.S., 397 (1999) 183

Esteban, M., see Díaz-Cruz, M.S., 382 (1999) 105

Esteban, M., see Díaz-Cruz, M.S., 385 (1999) 353

Esteban, M., see Galceran, J., 305 (1995) 273

Esteban, M., see Giménez, M.D., 310 (1995) 121

Esteban, M., see Grabarić, B.S., 325 (1996) 135

Esteban, M., see Grabarić, B.S., 341 (1997) 105

Esteban, M., see Grabarić, B.S., 363 (1998) 261

Esteban, M., see Grabarić, Z., 312 (1995) 27

Esteban, M., see Mendieta, J., 390 (1999) 15

Esteban, M., see Torres, M., 371 (1998) 23

Estela, J.M., Cladera, A. and Cerdà, V., Development and testing of a new computerized method for multicomponent kinetic determinations based on multiwavelength spectrophotometric detection, 310 (1995) 307

Estela, J.M., see Cladera, A., 302 (1995) 297

Estela, J.M., see Cladera, A., 350 (1997) 163

Estela, J.M., see Muñoz, A., 350 (1997) 21

Esteve-Romero, J.S., see Carda-Broch, S., 353 (1997) 215

Esteve-Romero, J.S., see Carda-Broch, S., 375 (1998) 143

Esteves da Silva, J.C.G., Ferreira, M.A., Machado, A.A.S.C. and Rey, F., Classification of binding sites for Al(III) in fulvic acids extracted from leaf litters and soils by synchronous fluorescence spectroscopy and multidimensional chemometric analysis, 333 (1996) 71

Esteves, V.I., see Santos, E.B., 392 (1999) 333

Estrella Legaz, M., Pedrosa, M.M., Armas, R.d., Rodríguez, C.W., Ríos, V.d.l. and Vicente, C., Separation of soluble glycoproteins from sugarcane juice by capillary electrophoresis, 372 (1998) 201

Etahiri, A., see Bessière, J., 305 (1995) 265

Eun, H. and Umezawa, Y., Sulfate ion sensing based on a quartzcrystal microbalance immobilized with barium sulfate crystals grown on a self-assembled monolayer of phosphorylated 11mercapto-1-undecanol, 375 (1998) 155

Eustaquio, A., Blanco, M., Jee, R.D. and Moffat, A.C., Determination of paracetamol in intact tablets by use of near infrared transmittance spectroscopy, 383 (1999) 283

Eustaquio, A., see Blanco, M., 392 (1999) 237

Evans, C.E. and Davis, J.A., Effect of pressure-induced ionization, partitioning, and complexation on solute retention in reversedphase liquid chromatography, 397 (1999) 163 Evans, K.M., see Karamfilov, V.K., 335 (1996) 51

Everett, W.R. and Fritsch-Faules, I., Factors that influence the stability of self-assembled organothiols on gold under electrochemical conditions, 307 (1995) 253

Evmiridis, N.P., Thanasoulias, N.K. and Vlessidis, A.G., Determination of glucose and fructose in mixtures by a kinetic method with chemiluminescence detection, 398 (1999) 191

Evtugyn, G.A., Ivanov, A.N., Gogol, E.V., Marty, J.-L. and Budnikov, H.C., Amperometric flow-through biosensor for the determination of cholinesterase inhibitors, 385 (1999) 13

Ewing, K.J., Nau, G., Bilodeau, T., Dagenais, D.M., Bucholtz, F. and Aggarwal, I.D., Monitoring the absorption of organic vapors to a solid phase extraction medium Applications to detection of trace volatile organic compounds by integration of solid phase absorbents with fiber optic Raman spectroscopy, 340 (1997) 227

Ewing, R.G., see Bell, S.E., 303 (1995) 163

Experiandova, L.P., see Pulyayeva, I.V., 357 (1997) 239

Eylem, C., see Hrijac, J.A., 350 (1997) 221

Ezequiel Rollemberg, M.C., Simões Gonçalves, M.L.S., Almeida Mota, A.M. and Berbel, F., Erratum to "Determination of stability constants of labile heterogeneous complexes using differential pulse polarography and anodic stripping voltammetry". [Anal. Chim. Acta, 384 (1999) 17–26], 392 (1999) 349

Ezequiel Rollemberg, M.C., Simões Gonçalves, M.L.S., Almeida Mota, A.M. and Jiménez, F.B., Determination of stability constants of labile heterogeneous complexes using differential pulse polarography and anodic stripping voltammetry, 384 (1999) 17

## F

Faber, K. and Kowalski, B.R., Critical evaluation of two F-tests for selecting the number of factors in abstract factor analysis, 337 (1997) 57

Faber, N.(.M., Notes on two competing definitions of multivariate sensitivity, 381 (1999) 103

Faber, N.M., Meinders, M.J., Geladi, P., Sjöström, M., Buydens, L.M.C. and Kateman, G., Random error bias in principal component analysis. Part I. derivation of theoretical predictions, 304 (1995) 257

Faber, N.M., Meinders, M.J., Geladi, P., Sjöström, M., Buydens, L.M.C. and Kateman, G., Random error bias in principal component analysis. Part II. Application of theoretical predictions to multivariate problems, 304 (1995) 273

Fabre, H., Blanchin, M.D. and Bosc, N., Capillary electrophoresis for the determination of bromide, chloride and sulfate as impurities in calcium acamprosate, 381 (1999) 29

Fàbregas, E., see Jurkiewicz, M., 370 (1998) 47

Fàbregas, E., see Merkoçi, A., 391 (1999) 65

Fàbregas, E., see Santandreu, M., 396 (1999) 181

Fàbregas, E., see Saurina, J., 371 (1998) 49

Fabry, P., see Bartroli, J., 308 (1995) 102

Fabry, P., see Cretin, M., 350 (1997) 7

Fabry, P., see Cretin, M., 354 (1997) 291

Facchetti, S., see Nilsson, T., 356 (1997) 113

Facchin, I. and Pasquini, C., Two-phase liqui-liquid extraction in monosegmented flow analysis. Determination of cadmium with 1-(2'-pyridylazo) naphthol, 308 (1995) 231

Faccio, M., see Brunink, J.A.J., 325 (1996) 53

Fairman, B., see Barwick, V.J., 394 (1999) 281

Fago, G., see Laganà, A., 306 (1995) 65

Fago, G., see Laganà, A., 316 (1995) 377

Fago, G., see Laganà, A., 375 (1998) 107

Fairthorne, G., Fornasiero, D. and Ralston, J., Formation of a copper-butyl ethoxycarbonyl thiourea complex, 346 (1997) 237

Fakler, A., see Zhang, W., 375 (1998) 211

Faller, C., see Stojko, N.Yu., 371 (1998) 145

Faller, C., Stojko, N.Yu., Henze, G. and Brainina, K., Stripping voltammetric determination of mercury at modified solid electrodes. Determination of mercury traces using PDC/Au(III) modified electrodes, 396 (1999) 195

Fan, J., Shen, X. and Wang, J., Dissociation constants of methyl orange in aqueous alcohol solvents, 364 (1998) 275

Fan, X., see You, J., 367 (1998) 69

Fan, X., You, J., Kang, J., Ou, Q. and Zhu, Q., New reagents for determination of amino acids by liquid chromatography with precolumn fluorescence derivatization. 367 (1998) 81

Fane, A.G., see Yang, X.J., 369 (1998) 17

Fang Hu, H., see Wang, H., 359 (1998) 39

Fang Li, Y., see Zhi Huang, C., 375 (1998) 89

Fang Liu, Z., see Pu Liu, S., 379 (1999) 53

Fang, F., Kanan, S., Patterson, H.H. and Cronan, C.S., A spectrofluorimetric study of the binding of carbofuran, carbaryl, and aldicarb with dissolved organic matter, 373 (1998) 139

Fang, K.T., see Zhang, L., 370 (1998) 65

Fang, Q., Wang, F.R., Wang, S.L., Liu, S.S., Xu, S.K. and Fang, Z.L., Sequential injection sample introduction microfluidic-chip based capillary electrophoresis system, 390 (1999) 27

Fang, T., McGrath, M., Diamond, D. and Smyth, M.R., Development of a computer controlled multichannel potentiostat for applications with flowing solution analysis, 305 (1995) 347

Fang, X., see Fang, Y., 369 (1998) 39

Fang, Y., Gong, F., Fang, X. and Fu, C., Separation and determination of cyclodextrins by capillary electrophoresis with amperometric detection, 369 (1998) 39

Fang, Y., see Feng, M., 363 (1998) 67

Fang, Y., see Fu, C., 371 (1998) 81

Fang, Y., see Fu, C., 391 (1999) 29

Fang, Y., see Fu, C., 399 (1999) 259

Fang, Y., see He, P., 337 (1997) 217

Fang, Y., see Li, D.H., 389 (1999) 85 Fang, Y., see Wang, A., 386 (1999) 265

Fang, Y., see Wang, A., 394 (1999) 309

Fang, Y.-z., Dajun, L. and Jiannong, Y., Study of acetaminophen by parallel incident spectroelectrochemistry, 342 (1997) 13

Fang, Z., Meloun, M. and Muhammed, M., Modelling and optimization of cyanidation process. A chemometric approach by regression analysis, 367 (1998) 123

Fang, Z.L., Trends of flow injection sample pretreatment approaching the new millennium, 400 (1999) 233

Fang, Z.-L., Liu, Z.-S. and Qi, S., Combination of flow injection with capillary electrophoresis. Part I. The basic system, 346 (1997) 135

Fang, Z.L., see Chen, H.W., 355 (1997) 135

Fang, Z.L., see Chen, H.W., 376 (1998) 209

Fang, Z.L., see Chen, H.W., 394 (1999) 13

Fang, Z.L., see Fang, Q., 390 (1999) 27

Fang, Z.L., see Liu, X.Z., 358 (1998) 103

Fang, Z.L., see Liu, X.Z., 392 (1999) 273 Fang, Z.-L., see Liu, Z.-S., 353 (1997) 199

Fang, Z.L., see Pu, Q.S., 398 (1999) 65

Farag, A.B., see El-Shahawi, M.S., 307 (1995) 139

Faria, R.C. and Bulhões, L.O.S., Hydrogen ion selective electrode based on poly(1-aminoanthracene) film, 377 (1998) 21

Farias, P., see Cai, X., 344 (1997) 65

Farias, P.A.M., see Wang, J., 318 (1996) 151

Farias, P.A.M., see Wang, J., 332 (1996) 139

Farias, P.A.M., see Wang, J., 347 (1997) 1

Farias, P.A.M., see Xiaohua, C., 332 (1996) 49

Farooqui, M., see Sosnitza, P., 368 (1998) 197

Farran, A. and Ruiz, S., Effect of aliphatic alcohols as mobile phase modifiers on separation of phenylurea and phenoxyalkyl acid herbicides by micellar electrokinetic capillary chromatography, 317 (1995) 181

Farré, M., see Nunes, G.S., 387 (1999) 245

Farrell, C., see Cumming, R., 311 (1995) 377

Farrell, J.R., Iles, P.J. and Dimitrakopoulos, T., Photocured polymers in ion-selective electrode membranes. Part 5: Photopolymerised sodium sensitive ion-selective electrodes for flow injection potentiometry, 334 (1996) 133

Farrell, J.R., Iles, P.J. and Dimitrakopoulos, T., Photocured polymers in ion-selective electrode membranes Part 6: Photopolymerized lithium sensitive ion-selective electrodes for flow injection potentiometry, 335 (1996) 111

Farrell, J.R., Iles, P.J. and Yuan, Y.J., Determination of arsenic by hydride generation gas diffusion flow injection analysis with electrochemical detection, 334 (1996) 193

Farrell, S., Joa, J.F. and Pacey, G.E., Spectrophotometric determination of bromate ions using phenothiazines, 313 (1995) 121

Farrington, W.H.H., see Tarbin, J.A., 318 (1995) 95

Farry, L., Oxspring, D.A., Smyth, W.F. and Marchant, R., A study of the effects of injection mode, on-capillary stacking and offline concentration on the capillary electrophoresis limits of detection for four structural types of industrial dyes, 349 (1997) 221

Fatibello-Filho, O. and Borges, M.T.M.R., Flow-injection conductometric determination of acidity in industrial hydrated ethyl alcohol, 366 (1998) 81

Fatibello-Filho, O. and da Cruz Vieira, I., Flow injection spectrophotometric determination of sulfite using a crude extract of sweet potato root (*Ipomoea batatas* (L.) Lam.) as a source of polyphenol oxidase, 354 (1997) 51

Fatibello-Filho, O., Marcolino-Junior, L.H. and Pereira, A.V., Solid-phase reactor with copper(II) phosphate for flow-injection spectrophotometric determination of aspartame in tabletop sweeteners, 384 (1999) 167

Fatibello-Filho, O., see da Cruz Vieira, I., 366 (1998) 111

Fatibello-Filho, O., see Oliveira, A.F., 366 (1998) 281

Fatibello-Filho, O., see Pereira, A.V., 366 (1998) 55

Fatibello-Filho, O., see Vieira, I.d.C., 398 (1999) 145

Fatibello-Filho, O., see Vieira, I.d.C., 399 (1999) 287

Faubel, W., see Steinle, E., 353 (1997) 207

Faurie, R., see Scheper, T., 400 (1999) 121

Fauzi, H., Chiba, A., Nishikawa, F., Roy, M., Kawakami, J. and Nishikawa, S., Minimization of genomic human hepatitis delta virus ribozyme, 365 (1998) 309

Favarger, P.-Y., see Guéguen, C., 386 (1999) 155

Favaro, G. and Fiorani, M., Determination of pharmaceutical thiols by liquid chromatography with electrochemical detection: Use of an electrode with a conductive carbon cement matrix, chemically modified with cobalt phthalocyanine, 332 (1996) 249

Favero, G., see Campanella, L., 393 (1999) 109

Favretto, L., Campisi, B., Reisenhofer, E. and Adami, G., Terrigenous debris and mussel pollution – a differentiation based on trace element concentration by means of multivariate analysis, 344 (1997) 251

Favretto, L., see Campisi, B., 312 (1995) 199

Fazio, M.C., see De Santis, F., 346 (1997) 127

Fedorova, O.M., see Shkinev, V.M., 327 (1996) 167

Feely, R.A., Wanninkhof, R., Milburn, H.B., Cosca, C.E., Stapp, M. and P. Murphy, P., A new automated underway system for making high precision pCO<sub>2</sub> measurements onboard research ships, 377 (1998) 185

Fehér, Z., see Nagy, A., 310 (1995) 241

Fehér, Z., see Nagy, G., 319 (1996) 49

Feinberg, M. and Raguènès, N., Development and application of a standardized validation procedure for food chemistry laboratories, 391 (1999) 239

Feinberg, M.H., see Suard, C., 318 (1996) 261

Feldhoff, R., see Wienke, D., 317 (1995) 1

Feliciano, J., see Lewis, J.C., 397 (1999) 279

Felidj, N., see Pérez, R., 369 (1998) 197

Felix, T., Hall, B.J. and S. Brodbelt, J., Determination of benzophenone-3 and metabolites in water and human urine by solidphase microextraction and quadrupole ion trap GC-MS, 371 (1998) 195

Fellows, I., see Wring, S.A., 334 (1996) 225

Fender, M.A. and Butcher, D.J., Comparison of deuterium arc and Smith-Hieftje background correction for graphite furnace molecular absorption spectrometry of fluoride and chloride, 315 (1995) 167

Feng, F., see Lakshman, S., 321 (1996) 113

Feng, J., see Johnson, S.K., 341 (1997) 205

Feng, J.L., see Li, Y.G., 382 (1999) 277

Feng, M., Long, D. and Fang, Y., Parallel incident spectroelectrochemistry study of chloramphenicol, 363 (1998) 67

Feng, M., see Lu, J., 304 (1995) 369

Feng, M., see Wang, W., 375 (1998) 261

Feng, X.J. and Fu, B., Determination of arsenic, antimony, selenium, tellurium and bismuth in nickel metal by hydride generation atomic fluorescence spectrometry, 371 (1998) 109

Feng, Y.L., Chen, H.Y., Tian, L.C. and Narasaki, H., Off-line separation and determination of inorganic arsenic species in natural water by high resolution inductively coupled plasma mass spectrometry with hydride generation combined with reaction of arsenic(V) and L-cysteine, 375 (1998) 167

Feng, Y.L., Narasaki, H., Chen, H.Y. and Tian, L.C., Speciation of antimony(III) and antimony(V) using hydride generation inductively coupled plasma atomic emission spectrometry combined with the rate of pre-reduction of antimony, 386 (1999) 297

Fenglian, B., see Schulman, S.G., 304 (1995) 165

Fenton, E., see Kipton, H., 334 (1996) 27

Fenu, S., see Piras, L., 335 (1996) 127

Ferguson, J.A., Healey, B.G., Bronk, K.S., Barnard, S.M. and Walt, D.R., Simultaneous monitoring of pH, CO<sub>2</sub> and O<sub>2</sub> using an optical imaging fiber, 340 (1997) 123

Feria, L.S., see García Sánchez, F., 328 (1996) 73

Fernanda García Bermejo, L., see Antonio Murillo Pulgarín, J., 373 (1998) 119

Fernanda Giné, M., Tuon, R.L., Cesta, A.A., Paula Packer, A. and Reis, B.F., Real-time simplex optimization of flow-injection systems for chemical analysis, 366 (1998) 313

Fernandes, J.C.B., Kubota, L.T. and Neto, G.d.O., Potentiometric biosensor for t-ascorbic acid based on ascorbate oxidase of natural source immobilized on ethylene-vinylacetate membrane, 385 (1999) 3

Fernandes, J.C.B., Neto, G.d.O. and Kubota, L.T., Use of column with modified silica for interfering retention in a FIA spectrophotometric method for direct determination of vitamin C in medicine, 366 (1998) 11

Fernandes, J.R., see Wang, J., 349 (1997) 77

Fernandes, J.R., see Wang, J., 375 (1998) 197

Fernández de Betoño, S., see Arranz, A., 389 (1999) 225

Fernández de Córdova, M.L., Ortega Barrales, P. and Molina Díaz, A., Sensitive and selective determination of diclofenac sodium in pharmaceutical preparations by solid phase ultraviolet absorptiometry, 369 (1998) 263

Fernández de Córdova, M.L., see Ortega Barrales, P., 360 (1998) 143

Fernández de Córdova, M.L., see Ortega Barrales, P., 376 (1998)

Fernández de Córdova, M.L., see Ruiz Medina, A., 394 (1999) 149Fernández Laespada, M.E., Pérez Pavón, J.L. and Cordero, B.M.,Electroluminescent detection of enzymatically generated hydrogen peroxide, 327 (1996) 253

Fernández López, P., see Murillo Pulgarín, J.A., 370 (1998) 9 Fernández López, P., see Murillo Pulgarín, J.A., 382 (1999) 77

Fernández Villamil, M.J., Miranda Ordieres, A.J. and Tuñón Blanco, P., Immobilized enzyme electrode for the determination of Llactate in food samples, 345 (1997) 37

Fernández, C., Reviejo, A.J. and Pingarrón, J.M., Development of graphite-poly(tetrafluoroethylene) composite electrodes Voltammetric determination of the herbicides thiram and disulfiram, 305 (1995), 122

Fernández, C., Reviejo, A.J. and Pingarrón, J.M., Graphite-poly (tetrafluoroethylene) electrodes as electrochemical detectors in flowing systems, 314 (1995) 13

Fernández, C., see Reviejo, A.J., 315 (1995) 93

Fernández, C.R., see Amárita, F., 349 (1997) 153

Fernández, E.H., see Martínez, R.C., 304 (1995) 323

Fernández, F.M., see Azubel, M., 398 (1999) 93

Fernández, G.M., see Aller, A.J., 330 (1996) 89

Fernández, I., see Dachs, J., 351 (1997) 377

Fernández, J.J., see Parellada, J., 362 (1998) 47

Fernandez, L., see Silva, M.F., 342 (1997) 229

Fernández, L.A., see Cazallas, R., 317 (1995) 127

Fernández, M.D., see Capitán, F., 331 (1996) 141

Fernández, P., see Martín-Esteban, A., 304 (1995) 121 Fernández, V.M., see Parellada, J., 330 (1996) 71

Fernández-Abedul, M.T. and Costa-Garcia, A., Flow injection analysis with amperometric detection of cocaine in confiscated samples, 328 (1996) 67

Fernandez-Alba, A.R., Valverde, A., Agüera, A., Contreras, M. and Rodriguez, D., Determination of Procymidone in vegetables by a commercial competitive inhibition enzyme immunoassay, 311 (1995) 371

Fernández-Band, B., see Ferré, J., 348 (1997) 167

Fernández-Escobar, I. and Bayona, J.M., Supercritical fluid extraction of priority organotin contaminants from biological matrices, 355 (1997) 269

Fernández-Gutiérrez, A., see Cruces-Blanco, C., 318 (1996) 357 Fernández-Pérez, V., see Jiménez-Carmona, M.M., 395 (1999) 113

Fernández-Romero, J.M. and de Castro, M.D.L., A flow-injection continuous filtration approach for the automatic determination of monoclonal antibodies, 331 (1996) 245

Fernández-Romero, J.M., de Castro, M.D.L. and Quiles-Zafra, R., Spectrofluorimetric flow-injection determination of potassium in serum based on enzyme activation, 308 (1995) 178

Fernández-Romero, J.M., see Amador-Hernández, J., 390 (1999)

Fernández-Romero, J.M., see da Silva, M.P., 327 (1996) 101

Fernández-Romero, J.M., see Luque de Castro, M.D., 311 (1995)

Fernández-Romero, J.M., see Sánchez-Cabezudo, M., 308 (1995)

Fernández-Turiel, J.L., see Yong, C., 314 (1995) 183

Ferraco, M.J., see Sutheimer, S.H., 304 (1995) 187

Ferrari, R., see Nilsson, T., 356 (1997) 113

Ferrari, R.T., see Borgo, C.A., 385 (1999) 103

Ferré, J., Boqué, R., Fernández-Band, B., Larrechi, M.S. and Rius, F.X., Figures of merit in multivariate calibration. Determination of four pesticides in water by flow injection analysis and spectrophotometric detection, 348 (1997) 167

Ferré, J., see Rius, A., 337 (1997) 287

Ferreira, M.A., see Esteves da Silva, J.C.G., 333 (1996) 71

Ferreira, M.A., see Rey, F., 304 (1995) 375

Ferreira, S.L., see Teixeira, L.S., 383 (1999) 309

Ferreira, S.L.C., de Jesus, D.S., Cassella, R.J., Costa, A.C.S., de Carvalho, M.S. and Santelli, R.E., An on-line solid phase extraction system using polyurethane foam for the spectrophotometric determination of nickel in silicates and alloys, 378 (1999) 287

Ferreira, S.L.C., see de Jesus, D.S., 366 (1998) 263

Ferreira, V.S., B. Zanoni, M. Valnice and Fogg, A.G., Cathodic stripping voltammetric determination of ceftazidime with reactive accumulation at a poly-L-lysine modified hanging mercury drop electrode, 384 (1999) 159 Ferreira, V.S., Zanoni, M. Valnice B. and Fogg, A.G., Indirect cathodic-stripping voltammetric determination of ceftazidime as a mercury salt, 367 (1998) 255

Ferreira, V.S., Zanoni, M.V.B., Furlan, M. and Fogg, A.G., Differential pulse polarographic determination of ceftazidime in urine samples with and without prior extraction, 351 (1997) 105

Ferrer, I., see Aguilar, C., 386 (1999) 237

Ferrer, I., see Angel González-Martínez, M., 386 (1999) 201

Ferrer, I., see Gascón, J., 330 (1996) 41

Ferrer, N., see Romero, M. Teresa, 395 (1999) 77

Ferrer, R., Beltrán, J.L. and Guiteras, J., Use of cloud point extraction methodology for the determination of PAHs priority pollutants in water samples by high-performance liquid chromatography with fluorescence detection and wavelength programming, 330 (1996) 199

Ferrer, R., Beltrán, J.L. and Guiteras, J., Mathematical procedure for the determination of the breakthrough volumes of polycyclic aromatic hydrocarbons (PAHs), 346 (1997) 253

Ferrer, R., Guiteras, J. and Beltrán, J.L., Artificial neural networks (ANNs) in the analysis of polycyclic aromatic hydrocarbons in water samples by synchronous fluorescence, 384 (1999) 261

Ferrer, R., see Beltrán, J.L., 373 (1998) 311

Ferrer, R., see Guiteras, J., 361 (1998) 233

Ferreras, B., see Brezmes, J., 348 (1997) 503

Ferri, G., see Brunink, J.A.J., 325 (1996) 53

Ferri, T. and Sangiorgio, P., Determination of selenium speciation in river waters by adsorption on iron(III)-Chelex-100 resin and differential pulse cathodic stripping voltammetry, 321 (1996) 185

Ferri, T. and Sangiorgio, P., Voltammetric study of the interaction between Se(IV) and dissolved organic matter in environmental aqueous matrices, 385 (1999) 337

Ferri, T., Rossi, S. and Sangiorgio, P., Simultaneous determination of the speciation of selenium and tellurium in geological matrices by use of an iron(III)-modified chelating resin and cathodic stripping voltammetry, 361 (1998) 113

Ferris, J.H., see Weiss, P.S., 307 (1995) 355

Festa, M.R., see Anzalone, S., 343 (1997) 241

Festa, M.R., see Armanino, C., 331 (1996) 43

Fetzer, J.C., see Pandey, S., 324 (1996) 175

Fiaccabrino, G.C., de Rooij, N.F. and Koudelka-Hep, M., On-chip generation and detection of electrochemiluminescence, 359 (1998) 263

Fiaccabrino, G.C., see Belmont, C., 329 (1996) 203

Fiaccabrino, G.C., see Michel, P.E., 392 (1999) 95

Fiaccabrino, G.C., X.-M., T., Skinner, N., de Rooij, N.F. and Koudelka-Hep, M., Electrochemical characterization of thin-film carbon interdigitated electrode arrays, 326 (1996) 155

Fidalgo, M.L., see Calvo, A.M., 309 (1995) 145

Fielden, P.R., see Economou, A., 305 (1995) 165

Fielden, P.R., see Economou, A., 319 (1996) 3

Fielden, P.R., see Przybylko, A.R.M., 311 (1995) 77

Fielden, P.R., see Przybylko, A.R.M., 330 (1996) 229

Fielden, P.R., see Vaireanu, D.-I., 306 (1995) 115

Figg, W.D., see Simmons, B.R., 339 (1997) 91
Filanovsky B. Flectrochemical response of new

Filanovsky, B., Electrochemical response of new carbon electrodes bulk modified with cobalt phthalocyanine to some thiols in the presence of heptane or human urine, 394 (1999) 91 Filanovsky, B., Tur'yan, Y.I., Kuselman, I., Burenko, T. and Shenhar, A., Solid electrodes from refractory powder materials prepared for electroanalytical purposes by a novel method, 364 (1998) 181

Fileman, T.W., see Karamfilov, V.K., 335 (1996) 51

Filho, H.B., see Neto, J.A.G., 306 (1995) 343

Filho, J.L.L., see Duarte, M.M.M.B., 350 (1997) 353

Filipjeva, N.V., see Kolytcheva, N.V., 357 (1997) 231

Filippov, V., see Moritz, W., 393 (1999) 49

Finch, M.S., Hydes, D.J., Clayson, C.H., Bernhard Weigl, Dakin, J. and Gwilliam, P., A low power ultra violet spectrophotometer for measurement of nitrate in seawater: introduction, calibration and initial sea trials, 377 (1998) 167

Findlay, M., see Buttner, W.J., 341 (1997) 63

Finnin, B.C., see Tait, R.J., 324 (1996) 1

Fiol, S., López, R., Ramos, A., Antelo, J.M. and Arce, F., Study of the acid-base properties of three fulvic acids extracted from different horizons of a soil, 385 (1999) 443

Fiorani, M., see Favaro, G., 332 (1996) 249

Fioravanti, S., see Alimonti, A., 342 (1997) 75

Fischer Durand, N., see Ben Rejeb, S., 376 (1998) 41

Fischer Durand, N., see Ben Rejeb, S., 376 (1998) 133

Fischer, E. and van den Berg, C.M., Anodic stripping voltammetry of lead and cadmium using a mercury film electrode and thiocyanate, 385 (1999) 273

Fischer, K., see Glaus, M.A., 398 (1999) 111

Fischer, M. and Georges, J., Prediction of the calibration curves for the analysis of high absorbances using mode-mismatched dualbeam thermal lens spectrometry with chopped continuous wave laser excitation, 322 (1996) 117

Fischer, M. and Georges, J., Sources of errors in the use of calorimetric references for photothermal spectroscopic methods, 334 (1996) 337

Fischer, S., see He, C., 383 (1999) 185

Fisher, G., see MacNamara, E., 397 (1999) 9

Fister, J.C. and Harris, J.M., Data analysis techniques for monitoring excited state kinetics, 348 (1997) 311

Fittkau, I., see Wuske, T., 359 (1998) 321

Flair, M.N., see Wang, J., 347 (1997) 1

Flávia Delbem, M., see Katekawa, E., 385 (1999) 345

Flechsig, G.U., see Wang, J., 396 (1999) 33

Flegal, A.R., see Rivera-Duarte, I., 328 (1996) 13

Fleming, R., see Zheng, P., 310 (1995) 485

Fletouris, D.J., Botsoglou, N.A., Psomas, I.E. and Mantis, A.I., Determination of the marker residue of albendazole in milk using ion-pair liquid chromatography and fluorescence detection, 345 (1997) 111

Fletouris, D.J., see Botsoglou, N.A., 354 (1997) 115

Floch, J., Blain, S., Birot, D. and Treguer, P., In situ determination of silicic acid in sea water based on FIA and colorimetric dualwavelength measurements., 377 (1998) 157

Flor, T., Romero, I., Muñoz, M., Valiente, M. and Casabó, J., Thermodynamic characterization of the liquid-liquid extraction of silver by acyclic dithia benzene derivatives, 375 (1998) 127

Flores, E.M.M., see Machado, E.L., 380 (1999) 93

Flores, J.R., see Nevado, J.J.B., 340 (1997) 257

Florido, A., see El Aamrani, F.Z., 329 (1996) 247

Fluck, M., see Hierlemann, A., 346 (1997) 327

Fodor, P., see Mester, Z., 386 (1999) 89

Foellmer, T.J., see Yu, L.H., 317 (1995) 223

Fogg, A.G., see Almeida, P.J., 385 (1999) 287

Fogg, A.G., see Barek, J., 320 (1996) 31

Fogg, A.G., see Barek, J., 356 (1997) 231

Fogg, A.G., see Barros, A.A., 385 (1999) 315

Fogg, A.G., see Davies, A.E., 318 (1995) 55

Fogg, A.G., see Ferreira, V.S., 351 (1997) 105 Fogg, A.G., see Ferreira, V.S., 367 (1998) 255

Fogg, A.G., see Ferreira, V.S., 384 (1999) 159

Fogg, A.G., see Zanoni, M.V.B., 315 (1995) 41

Fogg, A.G., see Zanoni, M.V.B., 349 (1997) 101

Fogg, A.G., see Zanoni, M.V.B., 385 (1999) 385

Fogg, A.G., Zanoni, M.V.B., Yusoff, A. Rahim H.M., Ahmad, R.,

Barek, J. and Zima, J., Polarographic and voltammetric determination of triazine-based reactive azo dyes with 4-carboxypyridyl and 1,4-diazabicyclo[2,2,2]octanyl (DABCO) leaving groups, 362 (1998) 235

Fojta, M. and Paleček, E., Supercoiled DNA-modified mercury electrode: A highly sensitive tool for the detection of DNA damage, 342 (1997) 1

Fokina, I.I., see Eksperiandova, L.P., 396 (1999) 317

Fokkens, R.H., see Miermans, C.J.H., 340 (1997) 5

Folestad, S., see Berntsson, O., 364 (1998) 243

Folestad, S., see Csapó, J., 339 (1997) 99

Fonrodona, G., Ràfols, C., Bosch, E. and Rosés, M., Autoprotolysis in aqueous organic solvent mixtures. Water/alcohol binary systems, 335 (1996) 291

Fonrodona, G., see Barbosa, J., 347 (1997) 385

Fonrodona, G., see Barbosa, J., 351 (1997) 397

Fonrodona, G., see Bosch, E., 349 (1997) 367

Fontàs, C., Anticó, E., Salvadó, V., Valiente, M. and Hidalgo, M., Chemical pumping of rhodium by a supported liquid membrane containing Aliquat 336 as carrier, 346 (1997) 199

Fontes da Costa Lima, J.L., see Oliveira, C.C., 350 (1997) 31

Forastiere, F., see Krachler, M., 363 (1998) 1

Forastiero, V., see Cataldi, T.R.I., 310 (1995) 257

Forbes, G.A., Nieman, T.A. and Sweedler, J.V., On-line electrogenerated Ru(bpy)<sub>3</sub><sup>3+</sup> chemiluminescent detection of β-blockers separated with capillary electrophoresis, 347 (1997) 289

Forbes, S., see Andrew, K.N., 346 (1997) 113

Forcada, M., see Beltran, J., 356 (1997) 125

Forgács, E. and Cserháti, T., Use of cluster and principal component analysis in quantitative structure-retention relationship study, 348 (1997) 481

Forgács, E., see Cserháti, T., 316 (1995) 105

Forgács, E., see Rodrigues, P., 372 (1998) 411

Fornaro, P., see Lang, H.P., 393 (1999) 59

Fornasiero, D., see Fairthorne, G., 346 (1997) 237

Forrest, T.P., see Cleva, C., 348 (1997) 255

Forrest, T.P., see Eghbaldar, A., 359 (1998) 283

Forster, R.J., see Hogan, C.F., 396 (1999) 13

Forteza, R., see Bauzá de Mirabó, F.M., 355 (1997) 203

Forteza, R., see Cerdà, A., 311 (1995) 165

Forteza, R., see Cerdà, A., 351 (1997) 273

Forteza, R., see Cerdà, A., 371 (1998) 63

Forteza, R., see Oms, M.T., 318 (1996) 251

Foster, N., see Wang, J., 310 (1995) 223

Foulkes, M., see Ebdon, L., 311 (1995) 123

Fournand, D., Pirat, J.-L., Bigey, F., Arnaud, A. and Galzy, P., Spectrophotometric assay of aliphatic monohydroxamic acids and α-, β-, and γ-aminohydroxamic acids in aqueous medium, 353 (1997) 359

Frache, R., see Grotti, M., 376 (1998) 293

Frakiisky, Y., see Petrukhin, O.M., 385 (1999) 125

Frame, T., see Bin, L., 340 (1997) 175

Francisco Arranz, J., see Arranz, A., 389 (1999) 225

Franco, D., see De Backer, A., 334 (1996) 103

Franco, D.V., see Yperman, J., 395 (1999) 143

Fránek, M., Kolář, V. and Eremin, S.A., Enzyme immunoassays for s-triazine herbicides and their application in environmental and food analysis, 311 (1995) 349

Fránek, M., Pouzar, V. and Kolář, V., Enzyme-immunoassays for polychlorinated biphenyls: structural aspects of hapten-antibody binding, 347 (1997) 163

Fránek, M., see Šišák, M., 311 (1995) 415

Frank, A., see Danielsson, R., 354 (1997) 211

Frank, J., see Geerdink, M.J., 315 (1995) 159

Franke, A., see Krämer, P.M., 399 (1999) 89

Franko, M., see Šikovec, M., 330 (1996) 245

Frazier, M., see Springsteen, A., 380 (1999) 155

Freaney, R., see Dempsey, E., 346 (1997) 341

Freeman, C.E., see Howard, A.G., 377 (1998) 95 Frenich, A.G., see Garcia, M.D.G., 348 (1997) 177

Frenzel, W. and Krekler, S., Spectrophotometric determination of total phenolics by solvent extraction and sorbent extraction optosensing using flow injection methodology, 310 (1995)

Frenzel, W., see Schepers, D., 308 (1995) 109

Freriks, I.L., see Steen, R.J.C.A., 353 (1997) 153

Freund, M.S., see Hsueh, C.C., 397 (1999) 135

Frijlink, M., see van de Merbel, N.C., 303 (1995) 175

Fritsch-Faules, I., see Everett, W.R., 307 (1995) 253

Frizzarin, R.M., see Rocha, F.R., 366 (1998) 45

Froelich, P.N., see Mortlock, R.A., 332 (1996) 277

Froelicher, S., see Nawrocki, J., 327 (1996) 261 Frye, G.C., see Groves, W.A., 371 (1998) 131

Frye, G.C., see Schneider, T.W., 309 (1995) 53

Fu, B., see Feng, X.J., 371 (1998) 109

Fu, C., see Fang, Y., 369 (1998) 39

Fu, C., Song, L. and Fang, Y., Simultaneous determination of sugars and organic acids by co-electroosmotic capillary electrophoresis with amperometric detection at a disk-shaped copper electrode, 371 (1998) 81

Fu, C., Song, L. and Fang, Y., Determination of adenosine phosphate by co-electroosmotic capillary electrophoresis with amperometric detection, 399 (1999) 259

Fu, C., Wang, L. and Fang, Y., Determination of nonelectroactive cations by capillary electrophoresis with amperometric detection at a graphite electrode modified with a thin film of mixed-valent ruthenium-iron cyanide, 391 (1999) 29

Fuertes, A.B., see García-Calzada, M., 380 (1999) 39

Fuh, M.R.S. and Wang, G.Y., Quantitative analysis of nitrile rubber/ chloroprene by pyrolysis/gas chromatography/mass spectrometry, 371 (1998) 89

Fuhr, U., see Deasy, B., 310 (1995) 101

Fuhrmann, B., see Becker, M., 324 (1996) 115

Fujii, A., see Ogura, K., 384 (1999) 219

Fujii, N., see Kobayashi, T., 365 (1998) 81

Fujii, T., see Sugawara, Y., 365 (1998) 293

Fujikura, T., Sakamoto, K. and Shimozawa, J.T., The development of the significant peak selection method using the mutual information and its completeness, 351 (1997) 387

Fujima, J.M. and Danielson, N.D., Determination of creatine kinase activity and phosphocreatine in off-line and on-line modes with capillary electrophoresis, 375 (1998) 233

Fujimoto, T., see Takeda, K., 377 (1998) 47

Fujimoto, Y., see Ohto, K., 387 (1999) 61

Fujino, K., see Ishida, J., 365 (1998) 227

Fujisawa, T., see Yoshikawa, M., 365 (1998) 59

Fujishima, Y., see Sohrin, Y., 363 (1998) 11

Fujita, S., Toru, T., Kitagawa, Y., Kagiyama, N. and Momiyama, M., Highly sensitive detection of membrane-bound DNA using fluorescein derivatives, 339 (1997) 289

Fujita, T., see Sohrin, Y., 363 (1998) 11

Fujiwara, E., see Nabuchi, Y., 365 (1998) 301

Fujiwara, H., see Ito, N., 312 (1995) 323

Fujiwara, T., Kurahashi, K. and Kumamaru, T., Coupling of membrane-immobilized enzyme reaction and heteropoly acid-luminol chemiluminescence reaction for the determination of adenosine-5'-triphosphate, 349 (1997) 159

Fujiwara, T., see Sakai, H., 302 (1995) 173

Fujiwara, T., see Sakai, H., 331 (1996) 239

Fukano, Y., see Ozawa, K., 365 (1998) 3

Fukasawa, K., see Hasebe, Y., 357 (1997) 51

Fukaya, M., Ebisuya, H., Furukawa, K., Akita, S., Kawamura, Y. and Uchiyama, S., Self-driven coulometry of ethanol, d-glucose and d-fructose using ubiquinone-dependent dehydrogenase reactions, 306 (1995) 231

Fukuda, M., see Wako, T., 365 (1998) 9

Fukuda, S., see Aoki, T., 349 (1997) 11

Fukuda, T., see Morishima, K., 365 (1998) 273

Fukui, K., see Wako, T., 365 (1998) 9

Fukumoto, T., see Matsumoto, A., 390 (1999) 193

Fukumura, S., see Kiba, N., 354 (1997) 205

Fukushi, K., Sagishima, K., Saito, K., Takeda, S., Wakida, S.i. and Hiiro, K., Simultaneous determination of tributyltin and triphenyltin cations by capillary isotachophoresis with potential-gradient detector for direct detection, 383 (1999) 205

Fukushima, M., Nakayasu, K., Tanaka, S. and Nakamura, H., Chromium(III) binding abilities of humic acids, 317 (1995) 195

Fukushima, M., see Tanaka, S., 337 (1997) 351

Fukushima, M., Tanaka, S., Hasebe, K., Taga, M. and Nakamura, H., Interpretation of the acid-base equilibrium of humic acid by a continuous pK distribution and electrostatic model, 302 (1995) 365

Fukushima, M., Tanaka, S., Nakamura, H., Ito, S., Haraguchi, K. and Ogata, T., Copper(II) binding abilities of molecular weight fractionated humic acids and their mixtures, 322 (1996) 173 Fukushima, T., see Prados, P., 344 (1997) 227

Fukuzawa, M., see Hara, S., 387 (1999) 121

Funasaka, K., see Kamiura, T., 327 (1996) 61

Funatsu, K., see Bangov, I.P., 314 (1995) 101

Funazaki, N., see Hemmi, A., 316 (1995) 323

Funazo, K., see Miura, M., 357 (1997) 177

Funazo, K., see Miura, M., 373 (1998) 47

Fung, Y.S. and Dao, K.L., Trace enrichment and ion chromatographic determination of metal oxoanions in environmental water samples, 309 (1995) 173

Fungaro, D.A. and Brett, C.M., Microelectrode arrays: application in batch-injection analysis, 385 (1999) 257

Fuoco, R., Ceccarini, A., Onor, M. and Lottici, S., Supercritical fluid extraction combined on-line with cold-trap gas chromatography/ mass spectrometry, 346 (1997) 81

Furlan, M., see Ferreira, V.S., 351 (1997) 105

Furlan, M., see Zanoni, M.V.B., 385 (1999) 385

Furrer, G., see Neubauer, U., 392 (1999) 159

Furton, K.G., Li, C. and Jaffé, R., Rapid determination of uranium on solid matrices by synergistic in situ chelation supercritical fluid extraction and UV absorption spectroscopy, 304 (1995) 203

Furukawa, K., see Fukaya, M., 306 (1995) 231

Furuno, K., see Katsu, T., 312 (1995) 35

Furuno, K., see Watanabe, K., 316 (1995) 371

Furusawa, M., see Kiba, N., 311 (1995) 71

Furusawa, M., see Kiba, N., 354 (1997) 205

Furushima-Shimogawara, R., see Wako, T., 365 (1998) 9

Furusjö, E. and Danielsson, L.G., A method for the determination of reaction mechanisms and rate constants from two-way spectroscopic data, 373 (1998) 83

Fusheng, S., see Korenaga, T., 318 (1996) 195

Fu-Shien, H., see Jyh-Myng, Z., 310 (1995) 407

Fuster Mestre, Y., Lahuerta Zamora, L. and Martínez Calatayud, J., Direct flow injection chemiluminescence determination of salicylamide, 394 (1999) 159

Fuyi, W. and Zucheng, J., Direct determination of cadmium in solid biological materials by slurry sampling electrothermal atomic absorption spectrometry with polytetrafluoroethylene as a chemical modifier, 391 (1999) 89

Fuyu, G., Huifang, W. and Yi, L., A novel strategy for systematic optimization of micellar electrokinetic chromatography separations, 342 (1997) 133

## G

Gabor, G., Chadha, S. and Walt, D.R., Sensitivity enhancement of fluorescent pH indicators using pH-dependent energy transfer, 313 (1995) 131

Gabriel, D., Baeza, J., Valero, F. and Lafuente, J., A novel FIA configuration for the simultaneous determination of nitrate and nitrite and its use for monitoring an urban waste water treatment plant based on N/D criteria, 359 (1998) 173

Gade, C., see Bizec, B.L., 340 (1997) 201

Gadi, R., see Zhang, H., 370 (1998) 29

Gagić, S., see Komorsky-Lovrić, S., 389 (1999) 219

Gagnaire, H., see Abdelghani, A., 337 (1997) 225

Gagnaire, H., see Ronot-Trioli, C., 319 (1996) 121

Gahm, K.H., see Agyei, N.M., 307 (1995) 185

Gaikwad, A., Silva, M. and Pérez-Bendito, D., Selective stoppedflow determination of manganese with luminol in the absence of hydrogen peroxide, 302 (1995) 275

Gajári, J., see Horváth, E., 370 (1998) 191

Gala, B., Gómez-Hens, A. and Pérez-Bendito, D., Individual and joint stopped flow kinetic spectrofluorimetric determination of neomycin and tyrothricin, 303 (1995) 31

Gala, B., Gómez-Hens, A. and Pérez-Bendito, D., Use of a stoppedflow/T-format spectrofluorimeter for simultaneous kinetic analyses, 310 (1995) 453

Galal, A., see Mark, Jr., H.B., 385 (1999) 281

Galán, F., see Hernández, L., 315 (1995) 33

Galbán, J., see de Marcos, S., 343 (1997) 117

Galban, J., see Sierra, J.F., 368 (1998) 97

Galceran, J., Salvador, J., Puy, J., Cecilia, J., Esteban, M. and Mas, F., Influence of adsorption on calibration curves in normal pulse polarography, 305 (1995) 273

Galceran, M.T. and Jáuregui, O., Determination of phenols in sea water by liquid chromatography with electrochemical detection after enrichment by using solid-phase extraction cartridges and disks, 304 (1995) 75

Galceran, M.T., see Jáuregui, O., 340 (1997) 191

Gale, N.H., A new method for extracting and purifying lead from difficult matrices for isotopic analysis, 332 (1996) 15

Galeano Díaz, T., Acedo Valenzuela, M.I. and Salinas, F., Determination of the pesticide Naptalam, at the ppb level, by FIA with fluorimetric detection and on-line preconcentration by solid-phase extraction on C<sub>18</sub> modified silica, 384 (1999) 185

Galembeck, F., see Rover Jr., L., 366 (1998) 103

Galera, M.M., see Garcia, M.D.G., 348 (1997) 177

Galić, N., Cimerman, Z. and Tomišić, V., Tautomeric and protonation equilibria of Schiff bases of salicylaldehyde with aminopyridines, 343 (1997) 135

Galic, N., see Cimerman, Z., 343 (1997) 145

Gallego, M., see Ballesteros, E., 308 (1995) 253

Gallego, M., see Ballesteros, E., 315 (1995) 145

Gallego, M., see Gambart, D., 366 (1998) 93

Gallego, M., see González, M., 359 (1998) 47

Gallego, M., see Rodríguez, J., 375 (1998) 99

Gallego, M., see Silva, M.M., 368 (1998) 255

Gallego, M., see Yebra, M.C., 308 (1995) 275

Gallego, M., see Yebra, M.C., 308 (1995) 357

Galletti, G.C., Bocchini, P., Martinez, A.T. and Pelayo, J.M., Use of analytical pyrolysis for the characterization of paper industry effluents, 335 (1996) 245

Galletti, G.C., see Calvo, A.M., 309 (1995) 145

Galletti, G.C., see Rodriguez, J., 345 (1997) 121

Gallignani, M., Bahsas, H., Brunetto, M.R., Burguera, M., Burguera, J.L. and Petit de Peña, Y., A time-based flow injection-cold vapor-atomic absorption spectrometry system with on-line microwave sample pre-treatment for the determination of inorganic and total mercury in urine, 369 (1998) 57

Gallignani, M., see Burguera, J.L., 308 (1995) 349

Gallignani, M., see Burguera, M., 308 (1995) 339

Gallo, B., see Arenaza, M.J., 305 (1995) 91

Gallo-Martinez, L., see Campins-Falcó, P., 334 (1996) 199

Gallo-Martinez, L., Sevillano-Cabeza, A., Campíns-Falcó, P. and Bosch-Reig, F., A new derivatization procedure for the determination of cephalexin with 1,2-naphthoquinone 4-sulphonate in pharmaceutical and urine samples using solid-phase extraction cartridges and UV-visible detection, 370 (1998) 115

Galve, R., see Oubiña, A., 387 (1999) 255

Galzy, P., see Fournand, D., 353 (1997) 359

Gambart, D., Cárdenas, S., Gallego, M. and Valcárcel, M., An automated screening system for benzodiazepines in human urine, 366 (1998) 93

Gámiz-Gracia, L., see de Castro, M.D.L., 351 (1997) 23

Gammelgaard, B., Liao, Y.p. and Jøns, O., Improvement on simultaneous determination of chromium species in aqueous solution by ion chromatography and chemiluminescence detection, 354 (1997) 107

Gamo, T., see Okamura, K., 377 (1998) 125

Gamoudi, M., see Mlika, R., 354 (1997) 283

Gandee, M., see Combs, M.T., 341 (1997) 285

Gangloff, A., see Lin, S.X., 383 (1999) 101 Gantt, E., see Aizawa, K., 365 (1998) 109

Gao, D., Gu, J., Yu, R.-Q. and Zheng, G.-D., Substituted metalloporphyrin derivatives as anion carrier for PVC membrane electrodes, 302 (1995) 263

Gao, W., see Jin, W., 347 (1997) 263

Gao, Z., see Lin, C., 392 (1999) 291

Gao, Z., Siow, K.S. and Yeo, L., Determination of cobalt by catalytic-adsorptive differential pulse voltammetry, 320 (1996) 229

Gao, Z.-Q., see He, H.-B., 309 (1995) 73

Gaona, L.G., see Dukhovich, A., 303 (1995) 85

Garboś, S., Bulska, E., Hulanicki, A., Shcherbinina, N.I. and Sedykh, E.M., Preconcentration of inorganic species of antimony by sorption on Polyorgs 31 followed by atomic absorption spectrometry detection, 342 (1997) 167

García Alvarez-Coque, M.C., see López Grío, S., 381 (1999) 275

García Campaña, A.M., see Ouyang, J., 386 (1999) 257

García Mateo, J.V., see Gil Torró, I., 366 (1998) 241

García Mateo, J.V., see Moreno Gálvez, A., 396 (1999) 161

García Pinto, C., see González Martín, Y., 384 (1999) 83

García Sánchez, F., Navas Díaz, A., González Díaz, A.F. and Eremin, S.A., Quantification of 2,4,5-trichlorophenoxyacetic acid by fluorescence enzyme-linked immunosorbent assay with secondary antibody, 378 (1999) 219

García Sánchez, F., Navas Díaz, A., González Díaz, A.F., Torijas, M.C., Alcántara, D. and Eremin, S.A., Development of homogeneous phase-modulation fluoroimmunoassay for 2,4-dichlorophenoxyacetic acid, 395 (1999) 133

García Sánchez, F., see Navas Díaz, A., 381 (1999) 11

García, E., see Vidal, J.C., 385 (1999) 213

García, J.F., see Roig, M., 379 (1999) 121

García, J.F., see Toribio, M., 356 (1997) 41

García, J.F., see Toribio, M., 380 (1999) 83

García-Alonso, S. and Pérez-Pastor, R.M., Use of C<sub>18</sub> and silica-gel coated Sep-Pak cartridges for the determination of carbonyls in air by liquid chromatography, 367 (1998) 93 García-Alvarez-Coque, M.C., see Carda-Broch, S., 375 (1998) 143

García-Alvarez-Coque, M.C., see Carda-Broch, S., 396 (1999) 61

García-Ayuso, L.E. and Luque de Castro, M.D., A multivariate study of the performance of a microwave-assisted Soxhlet extractor for olive seeds, 382 (1999) 309

García-Ayuso, L.E., see Luque de Castro, M.D., 369 (1998) 1 García-Beltrán, L., see Sabé, R., 398 (1999) 279

García-Calzada, M., Marbán, G. and Fuertes, A.B., Potentiometric determination of sulphur in solid samples with a sulphide selective electrode, 380 (1999) 39

García-Vargas, M., see Mánuel-Vez, M.P., 355 (1997) 157

García Alvarez-Coque, M.C., see Torres Cartas, S., 302 (1995) 163

García Bermejo, L.F., see Pulgarin, J.A.M., 333 (1996) 59

García Campaña, A.M., Barrero, F.A. and Ceba, M.R., Sensitive spectrofluorimetric method for the determination of ethylenediaminetetraacetic acid and its salts in foods with zirconium ions and Alizarin Red S in a micellar medium, 329 (1996) 319

Garcia Hortal, J.A., see Torrades, F., 333 (1996) 139

García Sánchez, F., Navas Díaz, A., Lovillo, J. and Feria, L.S., α-Cyclodextrin as a restricted access mobile phase for reversedphase liquid chromatography with fluorimetric detection of phenolic compounds, 328 (1996) 73

Garcia, C.A.B., de Oliveira Neto, G. and T. Kubota, L., New fructose biosensors utilizing a polypyrrole film and p-fructose 5-dehydrogenase immobilized by different processes, 374 (1998) 201

Garcia, C.A.B., see Rover Jr., L., 366 (1998) 103

Garcia, I.L., see Viñas, P., 318 (1996) 319

García, I.L., Viñas, P., Campillo, N. and Córdoba, M.H., Linear flow gradients for automatic titrations, 308 (1995) 67

García, I.L., Viñas, P., Campillo, N. and Córdoba, M.H., Use of submicroliter-volume samples for extending the dynamic range of flow-injection flame atomic absorption spectrometry, 308 (1995) 85

García, I.M.S., see Martinez, R.C., 336 (1996) 47

Garcia, J.A.G., see Diaz, A.N., 321 (1996) 213

García, J.A.G., see Díaz, A.N., 327 (1996) 161

García, J.A.G., see Sánchez, F.G., 310 (1995) 399

Garcia, J.A.J., Plaza, J.G. and Pavón, J.M.C., Determination of active components in insecticide formulations by liquid chromatography and resolution of overlapped peaks by multivariate analysis and derivative spectrophotometry, 321 (1996) 273

García, J.F., Izquierdo-Ridorsa, A., Toribio, M. and Rauret, G., Classical versus multivariate calibration for a beta emitter (1<sup>4</sup>C) activity determination by liquid scintillation counting, 331 (1996) 33

Garcia, J.F., see Toribio, M., 310 (1995) 297

García, J.M., Hernández, O., Jiménez, A.I., Jiménez, F. and Arias, J.J., A contribution to the derivative ratio spectrum method, 317 (1995) 83

García, L., see Alpizar, J., 340 (1997) 149

García, L., see Cladera, A., 350 (1997) 163

García, M.A., Martí, V., Meinhardt, E., Cortina, J.L. and Granados, M., Metal cyanide control in hydrometallurgical processing of gold ores by multivariate calibration procedures, 353 (1997) 123

Garcia, M.B.Q., see Brett, C.M.A., 339 (1997) 167García, M.D.G., Frenich, A.G., Vidal, J.L.M., Galera, M.M., de laPeña, A.M. and Salinas, F., Resolution of overlapping peaks in

HPLC with diode array detection by application of partial least squares calibration to cross-sections of spectrochromatograms, 348 (1997) 177

García, M.S., see Sánchez-Pedreño, C., 308 (1995) 457

Garcia, R., see Bruhn, C.G., 306 (1995) 183

García-Alvarez-Coque, M.C., see Carda-Broch, S., 353 (1997) 215

García-Alvarez-Coque, M.C., see Torres-Cartas, S., 333 (1996) 31 García-Alvarez-Coque, M.C., see Torres-Lapasió, J.R., 348 (1997) 187

García-Alvarez-Coque, M.C., Torres-Lapasió, J.R. and Baeza-Baeza, J.J., Description of the partitioning behaviour of solutes and data treatment in micellar liquid chromatography with modifiers, 324 (1996) 163

García-Armada, M.P., Losada, J. and de Vicente-Pérez, S., Knowledge-based system for the provision of an analytical strategy for simultaneous determination of metals by differential-pulse polarography, 316 (1995) 47

García-Carmona, F., see Valero, E., 346 (1997) 215

Garcia-Gonzalez, L., see Eiceman, G.A., 306 (1995) 21

Garcia-Valls, R., Muñoz, M. and Valiente, M., Selective separation of lanthanides by supported liquid membranes containing Cyanex 925 as a carrier, 387 (1999) 77

Garden, L.M., see Davidson, C.M., 363 (1998) 45

Gareil, P., see Letellier, S., 315 (1995) 357

Gargallo, R., see Kudrev, A., 363 (1998) 119

Gargallo, R., Tauler, R. and Izquierdo-Ridorsa, A., Influence of selectivity and polyelectrolyte effects on the performance of softmodelling and hard-modelling approaches applied to the study of acid-base equilibria of polyelectrolytes by spectrometric titrations, 331 (1996) 195

Garguilo, M.G. and Michael, A.C., Optimization of amperometric microsensors for monitoring choline in the extracellular fluid of brain tissue, 307 (1995) 291

Garland, M., see Shirt, R., 374 (1998) 67

Garland, M., see Zeng, Y., 359 (1998) 303

Garland, M., Visser, E., Terwiesch, P. and Rippin, D.W.T., On the number of observable species, observable reactions and observable fluxes in chemometric studies and the role of multichannel integration, 351 (1997) 337

Garrigues, J.M., Pérez-Ponce, A., Garrigues, S. and Guardia, M.d.l., Fourier-transform infrared determination of nicotine in tobacco samples by transmittance measurements after leaching with CHCl<sub>3</sub>, 373 (1998) 63

Garrigues, P., see Matsuzawa, S., 312 (1995) 165

Garrigues, S., Andrade, J.M., de la Guardia, M. and Prada, D., Multivariate calibrations in Fourier transform infrared spectrometry for prediction of kerosene properties, 317 (1995) 95

Garrigues, S., see Bouhsain, Z., 330 (1996) 59

Garrigues, S., see Daghbouche, Y., 314 (1995) 203

Garrigues, S., see Daghbouche, Y., 345 (1997) 161

Garrigues, S., see Daghbouche, Y., 354 (1997) 97

Garrigues, S., see Garrigues, J.M., 373 (1998) 63

Garrigues, S., see López-Anreus, E., 308 (1995) 28 Garrigues, S., see López-Anreus, E., 333 (1996) 157

Garrigues, S., see Pérez-Ponce, A., 336 (1996) 123

Garrigues, S., see Pérez-Ponce, A., 358 (1998) 235

Garrigues, S., see Rambla, F.J., 344 (1997) 41

Garrigues, S., see Sánchez-Dasi, M.J., 361 (1998) 253

Gartu, P.O., see Male, K.B., 351 (1997) 159

Gascón, J., Martinez, E. and Barceló, D., Determination of atrazine and alachlor in natural waters by a rapid-magnetic particle-based ELISA Influence of common cross-reactants: deethylatrazine, deisopropylatrazine, simazine and metolachlor, 311 (1995) 357

Gascón, J., see Brecht, A., 362 (1998) 69

Gascón, J., see Marco, M.-P., 311 (1995) 319

Gascón, J., see Oubina, A., 346 (1997) 49

Gascón, J., see Oubiña, A., 347 (1997) 121

Gáspár, A. and Posta, J., On-line sorption preconcentration of chromium(VI) and its determination by flame atomic absorption spectrometry, 354 (1997) 151

Gaspar, S., Muresan, L., Patrut, A. and Popescu, I.C., PFeW<sub>11</sub>-doped polymer film modified electrodes and their electrocatalytic activity for H<sub>2</sub>O<sub>2</sub> reduction, 385 (1999) 111

Gasparic, T., see Gómez, M.M., 374 (1998) 241

Gasparini, G.M., see Wenli, L., 362 (1998) 253

Gašparović, B., Vojvodić, V. and Ćosović, B., Characterization of organic matter in fractionated seawater samples using o-nitrophenol as an electrochemical probe, 338 (1997) 179

Gastaldi, D., see Aruga, R., 310 (1995) 15

Gastonguay, L., see Silva, P.R.M., 385 (1999) 249

Gatta, M., see Casella, I.G., 357 (1997) 63

Gauglitz, G., see Brecht, A., 311 (1995) 289

Gauglitz, G., see Brecht, A., 347 (1997) 219

Gauglitz, G., see Brecht, A., 362 (1998) 69

Gauglitz, G., see H.M., Y., 312 (1995) 1

Gauglitz, G., see Länge, K., 399 (1999) 275

Gauglitz, G., see Leipert, D., 392 (1999) 213

Gauglitz, G., see Mouvet, C., 338 (1997) 109

Gauglitz, G., see Rathgeb, F., 372 (1998) 333

Gauthier, F.v., see Zwinkels, J.C., 380 (1999) 193

Gautier-Sauvigné, S.M., see Michel, P.E., 360 (1998) 89

Gaydou, E.M., see Goiffon, J.P., 382 (1999) 39

Gazaryan, I., see Gorton, L., 400 (1999) 91

Gazdag, M., Mihályfi, K. and Görög, S., Ion-pair RP-HPLC separation of thymopoietin fragments and related peptides, 352 (1997) 231

Gazeau, D., see Moulin, C., 378 (1999) 47

Gázquez, D., see Bagur, G., 309 (1995) 157

Ge, K., see Liu, D., 307 (1995) 61

Gebhart, E., Mnich, U., Schroeder, F. and Knauth, H.-D., Application of a new automatic event-controlled sampler for heavy metals: studies on the behaviour of particle bound heavy metals in the Elbe estuary, 377 (1998) 263

Gee, S.J., see Wortberg, M., 319 (1996) 291

Gee, S.J., see Yazynina, E.V., 399 (1999) 151

Geerdink, M.J., Erkelens, C., van Dam, J.C., Frank, J. and Luyben, K.C.A.M., Fast screening of contaminated soil samples using thermal desorption mass spectrometry, 315 (1995) 159

Geise, H.J., see Poels, I., 370 (1998) 105

Geistmann, F., see Šandor, M., 388 (1999) 19

Geladi, P., see Faber, N.M., 304 (1995) 257

Geladi, P., see Faber, N.M., 304 (1995) 273

Gelado-Caballero, M.D., see Collado-Sánchez, C., 320 (1996) 19

Gelaude, I., see Vanhaecke, F., 383 (1999) 253

Gelder, R.de, see Wehrens, R., 400 (1999) 413

Gelpi, E., see Abián, J., 302 (1995) 215

Gemeiner, P., see Štefuca, V., 355 (1997) 63

Gemperline, P.J., JungHwan, C., Baker, B., Batchelor, B. and Walker, D.S., Determination of multicomponent dissolution profiles of pharmaceutical products by in situ fiber-optic UV measurements, 345 (1997) 155

Gemperline, P.J., see Dempster, M.A., 310 (1995) 43

Gemperline, P.J., see JungHwan, C., 348 (1997) 303

Genc, O., see Salih, B., 371 (1998) 177

Gené, J., see Blanco, M., 327 (1996) 145

Genfeng, W., see Horita, K., 350 (1997) 295

Geng, L., see Boguslavsky, L., 311 (1995) 15

Geng, L., see Laurinavicius, V., 330 (1996) 159

Gennaro, M.C., see Angelino, S., 346 (1997) 61

Gennaro, M.C., see Marengo, E., 317 (1995) 53

Gennaro, M.C., see Marengo, E., 321 (1996) 225

Genova, B., see Yordanov, N.D., 353 (1997) 99

Genrich, M., see Mayer, M., 324 (1996) 37

Gentili, A., see Laganà, A., 354 (1997) 87

Genxi, L., Hongyuan, C. and Dexu, Z., Imidazole modified silver electrode and its application to the investigation of the electrochemistry of cytochrome c, 319 (1996) 275

Georgakopoulos, C., see Statheropoulos, M., 331 (1996) 53

Georgakopoulos, C.G., Statheropoulos, M.C. and Montaudo, G., An expert system for the interpretation of pyrolysis mass spectra of condensation polymers, 359 (1998) 213

Georges, J. and Paris, T., Influence of the Soret effect on the analytical signal in cw-laser thermal lens spectrometry of micellar solutions, 386 (1999) 287

Georges, J., Investigation of fluorescence efficiency in the europium-thenoyltrifluoroacetone chelate in aqueous and ethanolic solutions by laser-induced fluorescence and photothermal spectroscopic methods, 317 (1995) 343

Georges, J., see Fischer, M., 322 (1996) 117

Georges, J., see Fischer, M., 334 (1996) 337

Georgi, A., see Kopinke, F.D., 355 (1997) 101

Georgi, A., see Lai, E.P., 364 (1998) 63

Georgiou, C.A., see Nouros, P.G., 351 (1997) 291

Georgiou, C.A., see Nouros, P.G., 389 (1999) 239

Geraldo, M.D., see Bento, M.F., 385 (1999) 365

Gerardi, R.D., Barnett, N.W. and Jones, P., Two chemical approaches for the production of stable solutions of tris(2,2'bipyridyl)ruthenium(III) for analytical chemiluminescence, 388 (1999) 1

Gerardi, R.D., Barnett, N.W. and Lewis, S.W., Analytical applications of tris(2,2'-bipyridyl)ruthenium(III) as a chemiluminescent reagent, 378 (1999) 1

Gerardi, R.D., see Barnett, N.W., 318 (1996) 309

Gerber, C., see Lang, H.P., 393 (1999) 59

Gerbersmann, C., Heisterkamp, M., Adams, F.C. and Broekaert, J.A.C., Two methods for the speciation analysis of mercury in fish involving microwave-assisted digestion and gas chromatography-atomic emission spectrometry, 350 (1997) 273

Gerbersmann, C., Lobinski, R. and Adams, F.C., Determination of volatile sulfur compounds in water samples, beer and coffee with purge and trap gas chromatography-microwave-induced plasma atomic emission spectrometry, 316 (1995) 93

Gerlach, C.L., see Van Emon, J.M., 376 (1998) 55

Gerlache, M., Sentürk, Z., Viré, J.C. and Kauffmann, J.M., Potentiometric analysis of ionic surfactants by a new type of ion-selective electrode, 349 (1997) 59

Gesser, H.D., see McComb, M.E., 341 (1997) 229

Geun, S.C., see Min, J.C., 315 (1995) 311

Geun, S.C., see Uk, S.H., 315 (1995) 303

Geuns, J.M., see Van den Broeck, K., 361 (1998) 101

Ghiara, E., see Mester, Z., 359 (1998) 133

Ghindilis, A.L., Makower, A., Bauer, C.G., Bier, F.F. and Scheller, F.W., Determination of p-aminophenol and catecholamines at picomolar concentrations based on recycling enzyme amplification, 304 (1995) 25

Ghous, T. and Townshend, A., Flow injection determination of metrifonate by immobilised acetylcholinesterase inhibition, 332 (1996) 179

Ghous, T. and Townshend, A., Flow injection determination of neostigmine and galanthamine by immobilised acetylcholinesterase inhibition, 372 (1998) 379

Ghous, T. and Townshend, A., Flow injection determination of chlorpromazine by inhibition of glutamate dehydrogenase, 387 (1999) 47

Giacomelli, L., Boggetti, H., Agnelli, H., Anunziata, J., Silber, J.J. and Cattana, R., Relevant physicochemical factors in chromatographic separation of *Alternaria alternata* mycotoxins, 370 (1998) 79

Giacomelli, M.C., Largiuni, O. and Piccardi, G., Spectrophotometric determination of silicate in rain and aerosols by flow analysis, 396 (1999) 285

Giacosa, D., see Marengo, E., 317 (1995) 53

Giamarchi, P., see Le Garrec, H., 350 (1997) 171

Giamarchi, P., see Le Garrec, H., 368 (1998) 59

Gianazza, E. and Arnaud, P., Applications of gel electrophoresis in the determination of protein-low  $M_r$  substances and proteinprotein interactions, 372 (1998) 67

Gianazza, E., Eberini, I., Santi, O. and Vignati, M., Denaturantgradient gel electrophoresis: technical aspects and practical applications, 372 (1998) 99

Gianguzza, A., see De Stefano, C., 398 (1999) 103

Gibb, S.W., Mantoura, R.F.C. and Liss, P.S., Analysis of ammonia and methylamines in natural waters by flow injection gas diffusion coupled to ion chromatography, 316 (1995) 291

Gibson, L.T., Cooksey, B.G., Littlejohn, D. and Tennent, N.H., Characterisation of an unusual crystalline efflorescence on an Egyptian limestone relief, 337 (1997) 151

Gibson, L.T., Cooksey, B.G., Littlejohn, D. and Tennent, N.H., Investigation of the composition of a unique efflorescence on calcareous museum artifacts, 337 (1997) 253

Gibson, L.T., Cooksey, B.G., Littlejohn, D. and Tennent, N.H., Determination of experimental diffusion coefficients of acetic acid and formic acid vapours in air using a passive sampler, 341 (1997).

Gibson, L.T., Cooksey, B.G., Littlejohn, D. and Tennent, N.H., A diffusion tube sampler for the determination of acetic acid and formic acid vapours in museum cabinets, 341 (1997) 11 Gichuhi, A., see Boone, B. Edward, 397 (1999) 43

Giddings, J.C., see Contado, C., 345 (1997) 99

Giffhorn, F., see Burfeind, J., 322 (1996) 131

Gil Torró, I., García Mateo, J.V. and Calatayud, J. Martínez, Flowinjection biamperometric determination of nitrate (by photoreduction) and nitrite with the NO<sub>7</sub> /I<sup>-</sup> reaction, 366 (1998) 241

Gil, E.P., Carra, R.M.G.-M. and Sánchez Misiego, A., Determination of copper in human plasma by stripping potentiometry on a mercury film electrode in ethylenediamine medium, 315 (1995)

Gil, P., see Peris, M., 354 (1997) 249

Gilbert, C., see Kokot, S., 332 (1996) 105

Gilis, M., Durliat, H. and Comtat, M., Amperometric biosensors for L-alanine and pyruvate assays in biological fluids, 355 (1997)

Gilliard, J.A., see Ritter, C., 318 (1996) 125

Gilpin, R.K., see Y., W.Z., 315 (1995) 77

Giménez, M.D., Ariño, C. and Esteban, M., Voltammetry of Pb(II), Cd(II) and Zn(II) ions in the presence of the sulphated polysaccharide λ-carrageenan, 310 (1995) 121

Gimzewski, J.K., see Lang, H.P., 393 (1999) 59

Giné, M.F., Packer, A.P., Blanco, T. and dos Reis, B.F., Flow system based on a binary sampling process for automatic dilutions prior to flame atomic spectrometry, 323 (1996) 47

Giné, M.F., see Vieira, J.A., 366 (1998) 251

Gioda, A., see Bohrer, D., 362 (1998) 163

Giometti, C.S., see Bárány, M., 372 (1998) 33

Giovannoli, C., see Giraudi, G., 337 (1997) 93

Giovannoli, C., see Giraudi, G., 378 (1999) 225

Giovannoli, C., see Giraudi, G., 381 (1999) 133

Giovannoli, C., see Giraudi, G., 392 (1999) 85

Giráldez, I., see Gómez-Ariza, J.L., 399 (1999) 295

Giraudi, G., Baggiani, C. and Giovannoli, C., Inaccuracy of the Bradford method for the determination of protein concentration in steroid-horseradish peroxidase conjugates, 337 (1997) 93

Giraudi, G., Baggiani, C., Giovannoli, C., Marletto, C. and Vanni, A., Synthesis and characterisation of 8-hydroxyquinoline-bovine serum albumin conjugates as metal ion chelating proteins, 378 (1999) 225

Giraudi, G., Rosso, I., Baggiani, C. and Giovannoli, C., Affinity between immobilised monoclonal and polyclonal antibodies and steroid-enzyme tracers increases sharply at high surface density, 381 (1999) 133

Giraudi, G., Rosso, I., Baggiani, C., Giovannoli, C., Vanni, A. and Grassi, G., Development of an enzyme-linked immunosorbent assay for benalaxyl and its application to the analysis of water and wine, 392 (1999) 85

Gjelsvik, S., see Slimestad, R., 304 (1995) 209

Głab, S., see Koncki, R., 321 (1996) 27

Glab, S., see Koncki, R., 333 (1996) 215

Głąb, S., see Koncki, R., 379 (1999) 69

Głąb, S., see Koncki, R., 385 (1999) 451

Głab, S., see Leszczyńska, E., 368 (1998) 205

Głab, S., see Walcerz, I., 315 (1995) 289

Glab, S., see Walcerz, I., 369 (1998) 129 Glad, B., see Pontén, E., 320 (1996) 87

Glattstein, B., see Almog, J., 322 (1996) 203

Glattstein, B., see Almog, J., 334 (1996) 223

Glaus, M.A., Hummel, W. and Van Loon, L.R., Equilibrium dialysis-ligand exchange: adaptation of the method for determination of conditional stability constants of radionuclide-fulvic acid complexes, 303 (1995) 321

Glaus, M.A., van Loon, L.R., Achatz, S., Chodura, A. and Fischer, K., Degradation of cellulosic materials under the alkaline conditions of a cementitious repository for low and intermediate level radioactive waste. Part I: Identification of degradation products, 398 (1999) 111

Glazier, S.A., see McCurley, M.F., 311 (1995) 211

Gledhill, M., see Whitworth, D.-J., 392 (1999) 3

Glennon, J.D., see McSweeney, C.C., 346 (1997) 93

Głód, B.K., Alexander, P.W., Chen, Z.L. and Haddad, P.R., Thermodynamic investigation of sample retention mechanism in ionexclusion chromatography with inclusion compound in the mobile phase, 306 (1995) 267

Gloor, A., see Macher, C.L., 348 (1997) 465

Gobhadi, S., see Lutz, M., 305 (1995) 8

Goda, S., see Sohrin, Y., 363 (1998) 11

Godlewska-Źyłkiewicz, B., Leśniewska, B. and Hulanicki, A., The study of magnesium speciation in serum by liquid chromatography and graphite furnace atomic absorption techniques, 358 (1998) 185

Goebel, T., see Houlne, M.P., 397 (1999) 267

Goetz, M., see Tsipouras, A., 316 (1995) 161

Gogol, E.V., see Evtugyn, G.A., 385 (1999) 13

Goh, N.K., see Li, J., 362 (1998) 203

Goicoechea, H.C., Olivieri, A.C. and Muñoz de la Peña, A., Determination of theophylline in blood serum by UV spectrophotometry and partial least-squares (PLS-1) calibration, 384 (1999) 95

Goicolea, A., see Rodríguez, E., 384 (1999) 63

Goicolea, M.A., de Balugera, Z.G., Portela, M.J. and Barrio, R.J., Determination of N-nitrosopiperidine in beers by liquid chromatography with reductive amperometric detection at a hanging mercury drop electrode, 305 (1995) 310

Goicolea, M.A., see de Erenchun, N.R., 349 (1997) 199

Goicolea, M.A., see Portela, M.J., 327 (1996) 65

Goiffon, J.P., Mouly, P.P. and Gaydou, E.M., Anthocyanic pigment determination in red fruit juices, concentrated juices and syrups using liquid chromatography, 382 (1999) 39

Goines, R., see Mi, Y., 397 (1999) 103

Gokan, A., see Hasebe, Y., 302 (1995) 21

Golimowska, K., see Golimowski, J., 325 (1996) 111

Golimowski, J. and Golimowska, K., UV-photooxidation as pretreatment step in inorganic analysis of environmental samples, 325 (1996) 111

Gomes, M.T., Duarte, A.C. and Oliveira, J.P., The utilisation of a piezoelectric quartz crystal for measuring carbon dioxide in wine, 327 (1996) 95

Gomes, M.T.S.R., Rocha, T.A., Duarte, A.C. and Oliveira, J.A.B.P., Performance of a tetramethylammonium fluoride tetrahydrate coated piezoelectric crystal for carbon dioxide detection, 335 (1996) 235

Gomez de Balugera, Z., see de Erenchun, N.R., 349 (1997) 199 Gómez de Balugera, Z., see Portela, M.J., 327 (1996) 65 Gómez de Balugera, Z., see Rodríguez, E., 384 (1999) 63

Gómez, E., see Cladera, A., 302 (1995) 297

Gomez, F.A., see Kwak, E.S., 397 (1999) 183

Gómez, M., see Palacios, M.A., 340 (1997) 209

Gómez, M.M., Gasparic, T., Palacios, M.A. and Camara, C., Determination of five selenium compounds in urine by liquid chromatography with focused microwave assisted digestion and hydride generation–atomic absorption spectrometric detection, 374 (1998) 241

Gómez-Ariza, J.L., Giráldez, I., Sánchez-Rodas, D. and Morales, E., Metal readsorption and redistribution during the analytical fractionation of trace elements in oxic estuarine sediments, 399 (1999) 295

Gómez-Hens, A., see Aguilar-Caballos, M.P., 354 (1997) 173

Gómez-Hens, A., see Aguilar-Caballos, M.P., 381 (1999) 147

Gómez-Hens, A., see Gala, B., 303 (1995) 31

Gómez-Hens, A., see Gala, B., 310 (1995) 453

Gómez-Hens, A., see Matveeva, E.G., 361 (1998) 27

Gómez-Hens, A., see Panadero, S., 303 (1995) 39

Gómez-Hens, A., see Panadero, S., 329 (1996) 135

Gómez-Hens, A., see Sendra, B., 355 (1997) 145

Gomez-Perez, M.C., see Delgado-Zamarreño, M.M., 315 (1995) 201

Gomis, D.B., Arias, V.E., Alvarez, L.E.F. and Alvarez, M.D.G., Determination of fat-soluble vitamins by capillary liquid chromatography in bovine blood plasma, 315 (1995) 177

Gomis, D.B., González, L.L. and Álvarez, D.G., Micellar electrokinetic capillary chromatography analysis of water-soluble vitamins, 396 (1999) 55

Gomita, Y., see Katsu, T., 312 (1995) 35

Gomita, Y., see Watanabe, K., 316 (1995) 371

Gonçalves, M.L.S., see Lopes da Conceição, A.C., 343 (1997) 191

Gonçalves, M.L.S.S., see da Conceição, A.C.L., 302 (1995) 97

Goncharova, L.V., see Dmitrienko, S.G., 373 (1998) 131

Gong, B. and Gong, G., Fluorimetric method for the determination of thiocyanate with 2',7'-dichlorofluorescein and iodine, 394 (1999) 171

Gong, B., Liu, Y., Li, J. and Lin, T., Comparison of chemical modifiers used for the determination of gold in ores by electrothermal atomic absorption spectrometry, 362 (1998) 247

Gong, B., see Chang, X., 354 (1997) 143

Gong, F., see Fang, Y., 369 (1998) 39

Gong, F., see Wang, A., 386 (1999) 265

Gong, G., see Gong, B., 394 (1999) 171

Gong, G.Q., see Zhou, J., 381 (1999) 17

Gong, X., see Ni, Y., 354 (1997) 163

Gongwei, Z., Zhen, L. and Congxiang, W., Flow injection analysis methods for determination of diffusion coefficients, 350 (1997) 359

Gonsalves, M., see Barker, A.L., 385 (1999) 223

González Díaz, A.F., see García Sánchez, F., 378 (1999) 219

González Díaz, A.F., see García Sánchez, F., 395 (1999) 133

González Martín, I., González Pérez, C. and Blanco López, M.A., Polarographic determination of cisapride and cinitapride, 368 (1998) 175

González Martín, Y., Luis Pérez Pavón, J., Moreno Cordero, B. and García Pinto, C., Classification of vegetable oils by linear discriminant analysis of Electronic Nose data, 384 (1999) 83

González Pérez, C., see González Martín, I., 368 (1998) 175

González, A. Gustavo and Herrador, M. Angeles, Ionization constants of water insoluble arylpropionic acids in aqueous N,Ndimethylformamide mixtures from potentiometric pH-titrations, 356 (1997) 253

González, A. Gustavo, Two level factorial experimental designs based on multiple linear regression models: a tutorial digest illustrated by case studies, 360 (1998) 227

González, A.E., see Calvo, A.M., 309 (1995) 145

González, A.G. and González-Arjona, D., Advantages of target factor analysis against multiple linear regression methods for testing model equations in linear free energy relationships, 312 (1995) 295

González, A.G., see Carrera, F., 370 (1998) 131

González, A.G., see Martin, M.J., 320 (1996) 191

González, A.G., see Martín, M.J., 358 (1998) 177

González, A.L., see Campaña, A.M.G., 348 (1997) 237

Gonzalez, C., see Roig, B., 389 (1999) 267

González, D.J., see Mánuel-Vez, M.P., 355 (1997) 157

Gonzalez, J., see Jamin, E., 347 (1997) 359

González, L.L., see Gomis, D.B., 396 (1999) 55

González, M., Ballesteros, E., Gallego, M. and Valcárcel, M., Continuous-flow determination of natural and synthetic antioxidants in foods by gas chromatography, 359 (1998) 47

González, M.J., see Ramos, L., 376 (1998) 313

González-Arjona, D. and Gustavo González, A., Adaptation of linear discriminant analysis to second level-pattern recognition classification, 363 (1998) 89

González-Arjona, D., González-Gallero, V., Pablos, F. and Gustavo González, A., Authentication and differentiation of irish whiskeys by higher-alcohol congener analysis, 381 (1999) 257

González-Arjona, D., see González, A.G., 312 (1995) 295

González-Casado, A., see del Olmo, M., 346 (1997) 87

González-Cortés, A., see Agüí, L., 385 (1999) 241

González-Gallero, V., see González-Arjona, D., 381 (1999) 257

González-Martínez, M.A., Morais, S., Puchades, R., Maquieira, A., Abad, A. and Montoya, A., Development of an automated controlled-pore glass flow-through immunosensor for carbaryl, 347 (1997) 199

González-Martínez, M.A., see Gascón, J., 347 (1997) 149

González-Martínez, M.A., Puchades, R., Maquieira, A., Manclús, J.J. and Montoya, A., Automated immunosensing system for 3,5,6-trichloro-2-pyridinol. Application to surface water samples, 392 (1999) 113

González-Martínez, M.A., see Penalva, J., 387 (1999) 227

González-Romero, E., see Bravo-Díaz, C., 385 (1999) 373

Gonzalo, E.R., see Martinez, R.C., 304 (1995) 323

Gonzalo, E.R., see Martinez, R.C., 321 (1996) 147

Goodacre, R., see Alsberg, B.K., 348 (1997) 389

Goodacre, R., see Broadhurst, D., 348 (1997) 71

Goodacre, R., see Winson, M.K., 348 (1997) 273

Goodacre, R., Timmins, É.M., Jones, A., Kell, D.B., Maddock, J., Heginbothom, M.L. and Magee, J.T., On mass spectrometer instrument standardization and interlaboratory calibration transfer using neural networks, 348 (1997) 511 Goodacre, R., Trew, S., Wrigley-Jones, C., Saunders, G., Neal, M.J., Porter, N. and Kell, D.B., Rapid and quantitative analysis of metabolites in fermentor broths using pyrolysis mass spectrometry with supervised learning: application to the screening of Penicillium chrysogenum fermentations for the overproduction of penicillins, 313 (1995) 25

Gooding, J. Justin, see Situmorang, M., 394 (1999) 211

Gooding, J.J., Hall, C.E. and Hall, E.A.H., Physical study of filmforming acrylate emulsion polymers for biosensor applications, 349 (1997) 131

Goodrow, M.H. and Hammock, B.D., Hapten design for compoundselective antibodies: ELISAS for environmentally deleterious small molecules, 376 (1998) 83

Gooijer, C. and Mank, A.J., light on the next millennium, 400 (1999)

Gooijer, C., see de Beer, T., 330 (1996) 189

Gooijer, C., see de Beer, T., 390 (1999) 55

Gooijer, C., see Emteborg (b. Stigbrand), M., 357 (1997) 111

Gooijer, C., see Kok, S.J., 303 (1995) 3

Gooijer, C., see Kok, S.J., 360 (1998) 109

Gooijer, C., see Kok, S.J., 389 (1999) 77

Gooijer, C., see Kozin, I.S., 333 (1996) 193

Gooijer, C., see Kozin, I.S., 354 (1997) 181

Gooijer, C., see Mank, A.J.G., 315 (1995) 209

Gooijer, C., see Mank, A.J.G., 323 (1996) 1

Gooijer, C., see Nuijens, M.J., 311 (1995) 47

Gooijer, C., see Somsen, G.W., 349 (1997) 189

Gooijer, C., see van de Nesse, R.J., 309 (1995) 135

Goossens, J., Moens, L. and Dams, R., Inductively coupled plasma mass spectrometric determination of heavy metals in soil and sludge candidate reference materials, 304 (1995) 307

Gopalan, B., see Krishna, G.R., 309 (1995) 333

Gopel, W., see Abbas, M.N., 393 (1999) 67

Göpel, W., see Hierlemann, A., 346 (1997) 327

Gorchkov, D.V., Soldatkin, A.P., Maupas, H., Martelet, C. and Jaffrezic-Renault, N., Correlation between the electrical charge properties of polymeric membranes and the characteristics of ion field effect transistors or penicillinase based enzymatic field effect transistors, 331 (1996) 217

Goren, Z., see Almog, J., 322 (1996) 203

Goren, Z., see Almog, J., 334 (1996) 223

Görlach, E., see Richmond, R., 390 (1999) 175

Görlach, E., see Richmond, R., 394 (1999) 33

Görlach, E., see Richmond, R., 399 (1999) 309

Gorodkiewicz, E., see Kojło, A., 302 (1995) 283

Görög, S., see Gazdag, M., 352 (1997) 231

Gort, S.M., see Hoogerbrugge, R., 388 (1999) 119

Gorton, L., Lindgren, A., Larsson, T., Munteanu, F.D., Ruzgas, T. and Gazaryan, I., Direct electron transfer between heme-containing enzymes and electrodes as basis for third generation biosensors, 400 (1999) 91

Gorton, L., see Buttler, T., 324 (1996) 103

Gorton, L., see Larsson, T., 331 (1996) 207

Gorton, L., see Lidén, H., 361 (1998) 223

Gorton, L., see Lindgren, A., 347 (1997) 51

Gorton, L., see Lutz, M., 305 (1995) 8

Gorton, L., see Min, R.W., 366 (1998) 127

Gorton, L., see Nagy, G., 305 (1995) 65

Gorton, L., see Nistor, C., 387 (1999) 309

Gorton, L., see Rajendran, V., 373 (1998) 241

Gorton, L., see Ruzgas, T., 311 (1995) 245

Gorton, L., see Ruzgas, T., 330 (1996) 123 Gorton, L., see Smolander, M., 302 (1995) 233

Gorton, L., see Spohn, U., 319 (1996) 79

Gorton, L., see Tessema, M., 310 (1995) 161

Gorton, L., see Tessema, M., 349 (1997) 179

Gorton, L., see Torto, N., 313 (1995) 15

Gorton, L., see Torto, N., 374 (1998) 111

Gorton, L., see Torto, N., 379 (1999) 281

Gorton, L., see Vijayakumar, A.R., 327 (1996) 223

Gorton, L., see Yaropolov, A.I., 308 (1995) 137

Goto, T., see Ito, K., 382 (1999) 245

Goto, T., see Kitamura, K., 304 (1995) 101

Goto, T., see Murakami, S., 361 (1998) 19

Götze, H.-J., Jursch, M. and Kahmann, A., Liquid chromatographic and infrared studies on ethylenediamineplatinum(II) guanosine complexes, 324 (1996) 155

Gouveia, L.F., Costa Lima, J.L. and Morais, J.A., Automated flowinjection system for extending the linear range, 366 (1998) 271

Gouveia, L.F.B.P., see Korn, M., 313 (1995) 177

Grabarczyk, M., see Korolczuk, M., 387 (1999) 97

Grabarić, B.S., Grabarić, Z., Díaz-Cruz, J.M., Esteban, M. and Casassas, E., Metal complexation model identification and the detection and elimination of erroneous points using evolving least-squares fitting of voltammetric data, 363 (1998) 261

Grabarić, B.S., Grabarić, Z., Esteban, M. and Casassas, E., Evolving polynomial regression and error analysis in model identification and determination of consecutive stability constants using voltammetric methods, 325 (1996) 135

Grabarić, B.S., Grabarić, Z., Tauler, R., Esteban, M. and Casassas, E., Application of multivariate curve resolution to the voltammetric data Factor analysis ambiguities in the study of weak consecutive complexation of metal ion with ligand, 341 (1997)

Grabarić, B.S., see Díaz-Cruz, M.S., 382 (1999) 105

Grabarić, B.S., see Grabarić, Z., 312 (1995) 27

Grabarić, B.S., see Milardović, S., 350 (1997) 91

Grabaric, B.S., see Nunes, G.S., 399 (1999) 37

Grabaric, B.S., see Torres, M., 371 (1998) 23

Grabarić, Z., Grabarić, B.S., Esteban, M. and Casassas, E., Signals ratio method for resolution enhancement in differential pulse polarography and related techniques, 312 (1995) 27

Grabarić1, Z., see Díaz-Cruz, M.S., 382 (1999) 105

Grabarić, Z., see Grabarić, B.S., 325 (1996) 135

Grabarić, Z., see Grabarić, B.S., 341 (1997) 105

Grabarić<sup>1</sup>, Z., see Grabarić, B.S., 363 (1998) 261

Grabec, I., see Cai, X., 310 (1995) 153

Grabec, I., see Ogorevc, B., 305 (1995) 176

Grabow, H., see Gründler, P., 305 (1995) 232

Gracia, J., see Araújo, A., 310 (1995) 289

Gradl, M., see Guo, T., 320 (1996) 171

Grady, T., Cadogan, A., McKittrick, T., Harris, S.J., Diamond, D. and McKervey, M.A., Sodium-selective electrodes based on triester monoacid derivatives of p-tert-butylcalix[4]arene. Comparison with tetraester calix[4]arene ionophores, 336 (1996) 1

Graf Harsanyi, E., see Tani, Y., 395 (1999) 53

Graf, T., see Ørsnes, H., 390 (1999) 185

Graham Cooks, R., see Johnson, R.C., 395 (1999) 239

Grahek, Z., Zečević, N. and Lulić, S., Possibility of rapid determination of low-level 90Sr activity by combination of extraction chromatography separation and Cherenkov counting, 399 (1999) 237

Grahl-Nielsen, O., see Slimestad, R., 304 (1995) 209

Gramond, J.P., see Letellier, S., 315 (1995) 357

Granadillo, V.A., Cubillán, H.S., Sánchez, J.M., Tahán, J.E., Márquez, E.S. and Romero, R.A., Three pressurized mineralization procedures that permit subsequent flame atomic spectrometric determination of Ca, Fe, K, Mg and Zn in bovine blood plasmacontaining cookies and in standard reference materials, 306 (1995) 139

Granados, M., see Compañó, R., 302 (1995) 185

Granados, M., see Compañó, R., 314 (1995) 175

Granados, M., see García, M.A., 353 (1997) 123

Grande, B.V. and Kvalheim, O.M., Quality of resolution of black multicomponent systems, 390 (1999) 1

Grandjean, D., see Hubert, P., 391 (1999) 135

Grané, N., see López-Cueto, G., 335 (1996) 185

Granger, M.C., Xu, J., Strojek, J.W. and Swain, G.M., Polycrystalline diamond electrodes: basic properties and applications as amperometric detectors in flow injection analysis and liquid chromatography, 397 (1999) 145

Granja Bustamante, C., see Vobecký, M., 386 (1999) 181

Grant, D.H., see Wang, J., 347 (1997) 1

Grant, D.H., see Wang, J., 349 (1997) 77

Grases, F., see Ballesteros, E., 315 (1995) 145 Grases, F., see March, J.G., 367 (1998) 63

Grasserbauer, M., see Mittermayr, C.R., 388 (1999) 303

Grassi, G., see Giraudi, G., 392 (1999) 85 Grasu, A., see Bunaciu, A.A., 311 (1995) 193

Grätzel, M., see König, B., 309 (1995) 19

Grauers, A., see Mecklenburg, M., 347 (1997) 79

Green, L.W., see Shultz, T.J., 316 (1995) 337

Green, M.M., see Chen, G., 356 (1997) 149

Greenway, G.M. and Wolfbauer, G., On-line determination of vanadium by adsorptive stripping voltammetry, 312 (1995) 15

Greenway, G.M., Haswell, S.J. and Petsul, P.H., Characterisation of a micro-total analytical system for the determination of nitrite with spectrophotometric detection, 387 (1999) 1

Greenway, G.M., see Madichie, C., 392 (1999) 39

Greenway, G.M., see Monser, L.I., 322 (1996) 63

Grégoire, D.C., see Mandal, R., 395 (1999) 309

Grégoire, D.C., see Mandal, R., 395 (1999) 323

Gregorio, C.G., see Neshkova, M.T., 362 (1998) 221

Gregory, S.L., see Ellison, S.L., 370 (1998) 181

Grekas, N., see Palilis, L.P., 333 (1996) 267

Grekovich, A.L., see Schwake, A., 393 (1999) 19

Greulach, U. and Henze, G., Analysis of arsenic(V) by cathodic stripping voltammetry, 306 (1995) 217

Greve, J., see Schipper, E.F., 341 (1997) 171

Gribov, L.A., Elyashberg, M.E. and Karasev, Y.Z., Quantitative molecular analysis by infrared spectrometry without standard materials, 316 (1995) 217

Gribov, L.A., see Elyashberg, M.E., 353 (1997) 105

Gridin, V.V., see Bulatov, V., 343 (1997) 93

Grieder, A., see Huber, W., 393 (1999) 213

Grierson, P., see Chen, Z., 363 (1998) 191

Griess, G.A., see Serwer, P., 372 (1998) 299

Grimalt, J.O., see Olivé, J., 306 (1995) 285

Groß, W. and März, W., Application of electrophoretic techniques to the diagnosis of disorders of lipoprotein metabolism. Examples at the levels of lipoproteins and apolipoproteins, 383 (1999) 169

Gronert, C., see Houben, A., 399 (1999) 69

Grootendorst, G.J., see de Beer, T., 330 (1996) 189

Gross, M.L., see Cai, Z., 304 (1995) 67

Grosselin, N., see Perdicakis, M., 385 (1999) 467

Groth<sup>a</sup>, L. and Jørgensen, A., In vitro microdialysis of hydrophilic and lipophilic compounds, 355 (1997) 75

Grotti, M., Leardi, R. and Frache, R., Empirical modelling of interferences in electrothermal atomization atomic absorption spectrometry, 376 (1998) 293

Grotti, M., Magi, E. and Leardi, R., Study of interferences in graphite furnace atomic absorption spectrometry by means of experimental design, 327 (1996) 47

Grover, W.H., see Scaboo, K.M., 380 (1999) 47

Groves, W.A., Zellers, E.T. and Frye, G.C., Analyzing organic vapors in exhaled breath using a surface acoustic wave sensor array with preconcentration: Selection and characterization of the preconcentrator adsorbent, 371 (1998) 131

Grubelnik, A., see Padeste, C., 374 (1998) 167

Grudpan, K., Sooksamiti, P. and Laiwraungrath, S., Determination of uranium in tin tailings using 4-(2-pyridylazo) resorcinol by flow-injection analysis, 314 (1995) 51

Grudpan, K., Sritharathikhun, P. and Jakmunee, J., Flow injection conductimetric or spectrophotometric analysis for acidity in fruit juice, 363 (1998) 199

Grummt, U.W., Pron, A., Zagorska, M. and Lefrant, S., Polyaniline based optical pH sensor, 357 (1997) 253

Grummt, U.-W., see Mohr, G.J., 344 (1997) 215

Grund, R., see Benecke, C., 314 (1995) 141

Gründig, B., see Conrath, N., 309 (1995) 47

Gründig, B., see Renneberg, R., 325 (1996) 161

Gründler, P., see Wang, J., 396 (1999) 33

Gründler, P., Zerihun, T., Kirbs, A. and Grabow, H., Simultaneous joule heating and potential cycling of cylindrical microelectrodes, 305 (1995) 232

Grunfeld, S., see Mesároš, Š., 339 (1997) 265

Grunfeld, S., see Mesároš, S., 358 (1998) 27

Grung, B. and Kvaiheim, O.M., Retention time shift adjustments of two-way chromatograms using Bessel's inequality, 304 (1995) 57

Grung, B. and Kvalheim, O.M., Interactive rank annihilation: a graphic approach to quantification in grey multicomponent systems, 316 (1995) 225

Gu, C., Somogyi, A., Wysocki, V.H. and Medzihradszky, K.F., Fragmentation of protonated oligopeptides XLDVLQ (X=L, H, K or R) by surface induced dissociation: additional evidence for the 'mobile proton' model, 397 (1999) 247

Gu, J., see Gao, D., 302 (1995) 263

Gu, R.A., see Zhang, Y.Q., 369 (1998) 123

Gu, X., see Ali, A., 392 (1999) 283

Gu, X., see Paul Chiarelli, M., 368 (1998) 1

Gu, Z.N., see Li, M.X., 356 (1997) 225

Gualda-Bueno, M.J., see Jiménez-Carmona, M.M., 395 (1999) 113

Guangjun, Z., see Jinghe, Y., 325 (1996) 195

Guangyao, Z., see Zhixing, S., 310 (1995) 493

Guanhua, Y., see Yuexia, Z., 309 (1995) 63

Guaratini, C.C.I., see Zanoni, M.V.B., 385 (1999) 385

Guardia, M.d.l., see Garrigues, J.M., 373 (1998) 63

Guarinoni, A., see Martinotti, W., 305 (1995) 183

Guascito, M.R., see Casella, I.G., 354 (1997) 333

Guascito, M.R., see Casella, I.G., 357 (1997) 63

Guascito, M.R., see Casella, I.G., 398 (1999) 153

Gübitz, G., see Dreveny, D., 398 (1999) 183

Guéguen, C., Belin, C., Thomas, B.A., Monna, F., Favarger, P.-Y. and Dominik, J., The effect of freshwater UV-irradiation prior to resin preconcentration of trace metals, 386 (1999) 155

Guekezian, M., see Prada, S.M., 329 (1996) 197

Guenat, O.T., Morf, W.E., van der Schoot, B.H. and de Rooij, N.F., Universal coulometric nanotitrators with potentiometric detection, 361 (1998) 261

Guerrieri, A., see Casella, I.G., 335 (1996) 217

Guerrieri, A., see Zambonin, C.G., 329 (1996) 143

Guiberteau Cabanillas, C., see Berzas Nevado, J.J., 378 (1999)

Guiberteau, A., Díaz, T.G., Salinas, F. and Ortiz, J.M., Indirect voltammetric determination of carbaryl and carbofuran using partial least squares calibration, 305 (1995) 219

Guilbault, G.G., see Compagnone, D., 340 (1997) 109

Guilbault, G.G., see Crowley, E., 389 (1999) 171

Guilbault, G.G., see Kreuzer, M.P., 393 (1999) 95

Guilbault, G.G., see Minunni, M., 325 (1996) 169

Guilbault, G.G., see O'Connell, P.J., 373 (1998) 261

Guilbault, G.G., see Papkovsky, D., 374 (1998) 1

Guillaud, G., see Mlika, R., 354 (1997) 283

Guillochon, D., see Lemieux, L., 352 (1997) 399

Guillochon, D., see Ruckebusch, C., 396 (1999) 241

Guillou, C., Koziet, J., Rossmann, A. and Martin, G.J., Determination of the <sup>13</sup>C contents of organic acids and sugars in fruit juices: an inter-comparison study, 388 (1999) 137

Guiteras, J., Beltrán, J.L. and Ferrer, R., Quantitative multicomponent analysis of polycyclic aromatic hydrocarbons in water samples, 361 (1998) 233

Guiteras, J., see Beltrán, J.L., 373 (1998) 311

Guiteras, J., see Ferrer, R., 330 (1996) 199

Guiteras, J., see Ferrer, R., 346 (1997) 253

Guiteras, J., see Ferrer, R., 384 (1999) 261

Guiwen, Z., see Caixia, H., 351 (1997) 241

Gulmini, M., Zelano, V., Daniele, P.G. and Ostacoli, G., Acid-base and copper(II) sorption properties of a natural lake sediment: Potentiometric and atomic absorption spectrometric characterisation, 358 (1998) 195 Gulmini, M., Zelano, V., Daniele, P.G., Prenesti, E. and Ostacoli, G., Acid-base properties of a river sediment: applicability of potentiometric titrations, 329 (1996) 33

Gun, J. and Lev, O., Sol-gel derived, ferrocenyl-modified silicategraphite composite electrode: Wiring of glucose oxidase, 336 (1996) 95

Gündüz, T., see Kenar, A., 324 (1996) 57

Günther, K., von Bohlen, A. and Strompen, C., Element determination by total-reflection X-ray fluorescence spectrometry at the initial step of element speciation in biological matrices, 309 (1995) 327

Güntherodt, H.J., see Lang, H.P., 393 (1999) 59

Guo, N.C., Rong, E.L., Zheng, F.Z., Jian. P.D. and Lin, Z., Electrogenerated chemiluminescence for determination of indole and tryptophan, 341 (1997) 251

Guo, Q., Wu, W. and Massart, D.L., The robust normal variate transform for pattern recognition with near-infrared data, 382 (1999) 87

Guo, T., Baasner, J. and McIntosh, S., Determination of highly concentrated Na, K, Mg and Ca in dialysis solution with flow injection on-line dilution and flame atomic absorption spectrometry, 331 (1996) 263

Guo, T., Baasner, J. and Tsalev, D.L., Fast automated determination of toxicologically relevant arsenic in urine by flow injectionhydride generation atomic absorption spectrometry, 349 (1997) 313

Guo, T., Baasner, J., Gradl, M. and Kistner, A., Determination of mercury in saliva with a flow-injection system, 320 (1996) 171

Guo, X., see Ducey Jr., M.W., 357 (1997) 5

Guo, X.m. and Guo, X.w., Optimization of hydride generation atomic fluorescence spectrometry for the determination of trace amounts of germanium: emphasis on acidity and interferences, 373 (1998) 303

Guo, X.-m., see Guo, X.-w., 330 (1996) 237

Guo, X.-Q., see Li, W.-Y., 340 (1997) 291

Guo, X.-Q., see Xu, J.-G., 302 (1995) 207

Guo, X.Q., see Zhang, H.M., 361 (1998) 9

Guo, X.-Q., see Zhao, Y.-B., 353 (1997) 329

Guo, X.-Q., Zhao, Y.-B. and Xu, J.-G., Study on sensitized photochemical fluorescence of menadione sodium bisulfite and its application in pharmaceutics analysis, 343 (1997) 109

Guo, X.-w. and Guo, X.-m., Interference-free atomic spectrometric method for the determination of trace amounts of germanium by utilizing the vaporization of germanium tetrachloride, 330 (1996) 237

Guo, X.w., see Guo, X.m., 373 (1998) 303

Guo, Z.X. and Shen, H.X., A novel method for the determination of protein utilizing 4-azochromotropic acid phenylfluorone-molybdenum(VI) complex, 396 (1999) 83

Guo, Z.X., Li, L. and Shen, H.X., Study and analytical application of bromopyrogallol red as a hydrogen donor substrate for peroxidase, 379 (1999) 63

Guo, Z.X., Li, L., Shen, H.X. and Cong, X., Bromopyrogallol red enhanced resonance light-scattering spectroscopic determination of DNA with 5,10,15,20-tetrakis[4-(trimethylammoniumyl) phenyl]porphine, 379 (1999) 45

Guojun, L., see Jinxin, L., 310 (1995) 329

Guo-Li, S., see Zhao-Hui, L., 325 (1996) 87 Guoqiang, L., see Liang, X., 322 (1996) 195 Guosheng, H., see Hai, D., 324 (1996) 85 Guoyi, Z., see Ying, W., 338 (1997) 97 Guo-Zhen, C., see Jian-Wei, X., 312 (1995) 337 Guo-Zhen, C., see Jian-Wei, X., 319 (1996) 231 Guozhi, W., see Enju, W., 334 (1996) 139 Gupta, M.N., see Agarwal, R., 313 (1995) 253 Gupta, V.K. and Kumar, P., Cadmium(II)-selective sensors based on dibenzo-24-crown-8 in PVC matrix, 389 (1999) 205 Gupta, V.K., Jain, A.K., Singh, L.P. and Khurana, U., Porphyrins as carrier in PVC based membrane potentiometric sensors for nickel(II), 355 (1997) 33 Gupta, V.K., Jain, A.K., Singh, L.P., Khurana, U. and Kumar, P., Molybdate sensor based on 5,10,15,20-tetraphenylporphyrinatocobalt complex in a PVC matrix, 379 (1999) 201 Gureviciene, V., see Laurinavicius, V., 330 (1996) 159 Gushikem, Y., see Dias Filho, N.L., 306 (1995) 167 Gustavo González, A., see González-Arjona, D., 363 (1998) 89 Gustavo González, A., see González-Arjona, D., 381 (1999) 257 Gustavsson, A., see Hedlund, P., 371 (1998) 9 Gustavsson, A., see Hedlund, P., 391 (1999) 257 Gutiérrez, A., see Martin-Esteban, A., 304 (1995) 121 Gutiérrez, A.F., see Carretero, A.S., 329 (1996) 165 Gutiérrez, A.F., see Carretero, A.S., 353 (1997) 337 Gutiérrez, A.F., see Carretero, A.S., 361 (1998) 217 Gutierrez, A.F., see Sánchez, F.G., 306 (1995) 313 Gutierrez-Granados, S., see Manriquez, J., 378 (1999) 159 Gutmann, F., see Milojevic, D., 319 (1996) 353 Gutz, I.G.R., see Dantoni, P., 366 (1998) 137 Guy, R.D., see Lohnes, M.T., 389 (1999) 95 Guyon, F., see Letellier, S., 315 (1995) 357 Guzmán, R.S., see Martinez, R.C., 336 (1996) 47 Gwilliam, P., see Finch, M.S., 377 (1998) 167

## $\mathbf{H}$

Haakenson, T.J., see Yates III, L.M., 356 (1997) 295 Haapakka, K., see Ala-Kleme, T., 395 (1999) 205 Haapakka, K., see Kulmala, S., 309 (1995) 197 Haapakka, K., see Kulmala, S., 340 (1997) 245

Gwon-Shik, I., see Moo-Jeong, S., 313 (1995) 221

Győrffy, E., see Idei, M., 372 (1998) 273

Haapakka, K., see Kulmala, S., 347 (1997) 333

Haapalinna, A., Manoochehri, F. and Ikonen, E., High-accuracy measurement of specular spectral reflectance and transmittance, 380 (1999) 317

380 (1999) 317

Haapalinna, A., see Manoochehri, F., 380 (1999) 327

Haas, G.M., see Bartlett, M.G., 346 (1997) 223

Hacker, A., see Spohn, U., 303 (1995) 109

Haddad, P.R., see Chen, Z., 338 (1997) 41

Haddad, P.R., see Glód, B.K., 306 (1995) 267

Haddad, P.R., see Ohta, K., 359 (1998) 255

Haddad, P.R., see Paull, B., 375 (1998) 117

Haddadian, F., see Crowder, M.W., 384 (1999) 127

Hadjiivanov, K., see Vassileva, E., 336 (1996) 141

Hagedorn, J., see Rhee, J.I., 374 (1998) 177

Hagege, A., see Martin, M., 373 (1998) 161

Haghighi, B. and Safavi, A., Simultaneous flow injection determination of iron(II) and iron(III) with opto-electrochemical detection, 354 (1997) 43

Haghighi, B., Maleki, N. and Safavi, A., Standard additions in flow injection analysis with atomic absorption spectrometry, 357 (1997) 151

Hagihara, Y., see Kawakubo, S., 388 (1999) 35

Hahn, L.C., see Masini, J.C., 364 (1998) 223

Hahn-Hägerdal, B., see Min, R.W., 366 (1998) 127

Hai, D., Guosheng, H. and Stillman, M.J., Knowledge base generation for the GCdiagnosis system, 324 (1996) 85

Haihong, L., see Haiying, L., 344 (1997) 187

Hailin, G., see Juan, L., 335 (1996) 137

Hailin, W., Hanfa, Z., Aisheng, F. and Yukui, Z., Binding of sulfamethoxazole to human serum albumin studied by a combined technique of microdialysis with liquid chromatography, 342 (1997) 159

Haindl, S., see Seifert, M., 386 (1999) 191

Haines, E.S., Walmsley, A.D. and Haswell, S.J., Quantitative Fourier transform infrared spectroscopy of binary mixtures of fatty acid esters using partial least squares regression, 337 (1997) 191

Haisch, C., Liermann, J., Panne, U. and Niessner, R., Characterization of colloidal particles by laser-induced plasma spectroscopy (LIPS), 346 (1997) 23

Haiying, L., see Chenghong, L., 332 (1996) 73

Haiying, L., see Yongcheng, L., 316 (1995) 65

Haiying, L., Tailin, Y., Kang, S., Haihong, L. and Deyao, Q., Reagentless amperometric biosensors highly sensitive to hydrogen peroxide, glucose and lactose based on N-methyl phenazine methosulfate incorporated in a Nafion film as an electron transfer mediator between horseradish peroxidase and an electrode, 344 (1997) 187

Haiying, L., Xiaolin, Z., Jianjun, W., Xinxin, W., Deyao, Q., Yongcheng, L., Miao, D., Tongyin, Y. and Jiaqi, D., An amperometric Meldola Blue-mediated sensor high sensitive to hydrogen peroxide based on immobilization of horseradish peroxidase in a composite membrane of regenerated silk fibroin and poly(vinyl alcohol), 329 (1996) 97

Hajinakitas, J.G., see Eckert, J.M., 315 (1995) 239

Hakanen, A., see Kulmala, A., 382 (1999) 233

Hakanen, A., see Kulmala, S., 309 (1995) 197

Hakanen, A., see Kulmala, S., 340 (1997) 245

Hakhyun, N., see Uk, S.H., 315 (1995) 303

Hak-Sung, K., see Hyun, C.Y., 336 (1996) 57

Hak-Sung, K., see Min-Chol, S., 329 (1996) 223

Halicz, L., see Lorber, A., 334 (1996) 295

Hall, B.J., see Felix, T., 371 (1998) 195

Hall, C.E. and Hall, E.A.H., Tuning of glucose oxidase modified alkylacrylate polymers employed in amperometric sensor systems, 310 (1995) 199

Hall, C.E., Datta, D. and Hall, E.A.H., Parameters which influence the optimal immobilisation of oxidase type enzymes on methacrylate copolymers as demonstrated for amperometric biosensors, 323 (1996) 87 Hall, C.E., see Gooding, J.J., 349 (1997) 131

Hall, E.A., see Mustan, N., 396 (1999) 171

Hall, E.A.H., see Gooding, J.J., 349 (1997) 131

Hall, E.A.H., see Hall, C.E., 310 (1995) 199

Hall, E.A.H., see Hall, C.E., 323 (1996) 87

Hall, E.A.H., see Lee, Y.H., 324 (1996) 47

Hall, P.O., see Berntsson, M., 355 (1997) 43

Hallen, C.P., see Ditzler, M.A., 316 (1995) 391

Halsall, H. Brian, see Wijayawardhana, C. Ajith, 399 (1999) 3

Hamano, T., see Kobayashi, M., 365 (1998) 199

Hamilton, I.C., see Argiropoulos, G., 360 (1998) 167

Hamilton, I.C., see Benson, R.L., 326 (1996) 29

Hamilton, I.C., see Porter, N., 308 (1995) 313

Hamilton-Taylor, J., see Jones, M.N., 314 (1995) 149

Hamilton-Taylor, J., see Lead, J.R., 369 (1998) 171

Hammerich, O., see Wang, J., 305 (1995) 3

Hammerstrom, D., see Wang, J., 385 (1999) 429

Hammock, B.D., see Gascón, J., 330 (1996) 41

Hammock, B.D., see Goodrow, M.H., 376 (1998) 83

Hammock, B.D., see Jones, G., 313 (1995) 197

Hammock, B.D., see Jones, G., 336 (1996) 175

Hammock, B.D., see Marco, M.-P., 311 (1995) 319

Hammock, B.D., see Wortberg, M., 304 (1995) 339

Hammock, B.D., see Wortberg, M., 319 (1996) 291

Hammock, B.D., see Yazynina, E.V., 399 (1999) 151

Hampel, W., see Hutter, W., 306 (1995) 237

Hamplová, M., see Volf, R., 381 (1999) 197

Hamrníková, I., Mikšík, I., Uhrová, M. and Deyl, Z., Ultraviolet detector response of glycine and alanine homopeptides: Some specific features in capillary electrophoresis, 372 (1998) 257

Han, R., see Lin, C., 392 (1999) 291

Han, S., see Yuan, Z., 389 (1999) 291

Han, T., Williams, J.M. and Beebe, T.P., Chemical bonds studied with functionalized atomic force microscopy tips, 307 (1995) 365

Hanada, N., see Katsu, T., 321 (1996) 21

Hanai, T., Hatano, H., Nimura, N. and Kinoshita, T., Computational chemical analysis of chiral recognition in liquid chromatography, selectivity of N-(R)-1-(α-naphthyl)ethylamino carbonyl-(R or S)-valine and N-(S)-1-(α-naphthyl)ethylamino carbonyl-(R or S)-valine bonded aminopropyl silica gels, 332 (1996) 213

Hanai, T., Miyazaki, R. and Kinoshita, T., Quantitative analysis of human serum albumin-drug interactions using reversed-phase and ion-exchange liquid chromatography. 378 (1999) 77

Hanáková, V., see Kubová, J., 337 (1997) 329

Hanaoka, Y., see Inoue, Y., 346 (1997) 299

Hancock, R.D., see Cukrowski, I., 312 (1995) 307

Hancock, R.D., see Cukrowski, I., 319 (1996) 39

Haney, L.L. and Riederer, D.E., Delayed extraction for improved resolution of ion/surface collision products by time-of-flight mass spectrometry, 397 (1999) 225

Hanfa, Z., see Hailin, W., 342 (1997) 159

Hanfa, Z., Yukui, Z. and Peichang, L., Effect of molecular structure on the solute-micelle and solute-stationary phase binding constants in micellar liquid chromatography, 310 (1995) 461

Hanghui, L. and Dasgupta, P.K., A liquid drop: A windowless optical cell and a reactor without walls for flow injection analysis, 326 (1996) 13 Hankins, J., see Swinney, K., 400 (1999) 265

Hannappel, E., see Huff, T., 352 (1997) 239

Hannappel, E., see Huff, T., 352 (1997) 249

(Hans) van Rhijn, J.A., see van der Voet, H., 391 (1999) 159

Hanselmann, K.W., see Stalder, V., 303 (1995) 91

Hansen, E.H., Flow-injection analysis: leaving its teen-years and maturing. A personal reminiscence of its conception and early development, 308 (1995) 3

Hansen, E.H., see Nielsen, S., 343 (1997) 5

Hansen, E.H., see Nielsen, S., 366 (1998) 163

Hansen, E.H., see Xuezhu, L., 326 (1996) 1

Hansen, H.E., see Kulys, J., 303 (1995) 285

Hanson, A.R. and Verrill, J.F., Study of the dependency of spectral radiance factor and colorimetric values on geometric tolerances, 380 (1999) 363

Hanson, A.R., see Clarke, P.J., 380 (1999) 277

Hanssen, L.M. and Kaplan, S., Infrared diffuse reflectance instrumentation and standards at NIST, 380 (1999) 289

Hanssen, L.M., see Kaplan, S.G., 380 (1999) 303

Han-Xi, S., see Min, Z., 334 (1996) 303

Han-Xi, S., see Shan-Jun, L., 313 (1995) 89

Han-Ying, Z., see Zhi-Qi, Z., 370 (1998) 59

Hara, C., see Sugawara, Y., 365 (1998) 293

Hara, H. and Huang, C.-c., Buffer composition suitable for determining very low fluoride concentrations using a fluoride ionselective electrode and its application to the continuous analysis of rain water, 338 (1997) 141

Hara, H. and Izumiyama, F., Continuous-flow determination system based on null-point potentiometry using a nitrate ion-selective membrane, 355 (1997) 211

Hara, H., Yabuuchi, K., Higashida, M. and Ogawa, M., Determination of free and total fluoride in rain water using a continuousflow system equipped with a fluoride ion-selective electrode detector, 364 (1998) 117

Hara, I., see Katayama, M., 303 (1995) 333

Hara, M., see Kobayashi, M., 361 (1998) 285

Hara, S., Mochinaga, S., Fukuzawa, M., Ono, N. and Kuroda, T., Simple and highly sensitive determination of morphine in rat plasma by liquid chromatography with fluorescence detection, 387 (1999) 121

Hara, S., see Ishida, J., 309 (1995) 211

Hara, S., see Watanabe, T., 386 (1999) 69

Harada, M., High performance liquid chromatographic determination of peptidase activity toward proline-containing peptides, 352 (1997) 179

Haraguchi, H., see Hu, W., 353 (1997) 143

Haraguchi, H., see Umemura, T., 349 (1997) 231

Haraguchi, H., see Umemura, T., 379 (1999) 23

Haraguchi, K., see Fukushima, M., 322 (1996) 173

Haraldsson, C., see Lyvén, B., 357 (1997) 187

Hardcastle, J.E., see Jano, I., 390 (1999) 261

Hardcastle, J.E., see Jano, I., 390 (1999) 267

Harden, C.S., see Eiceman, G.A., 306 (1995) 21

Harju, L., see Karhu, J., 380 (1999) 105

Harju, L., see Lill, J.-O., 378 (1999) 273

Härmä, H., Lehtinen, P., Takalo, H. and Lövgren, T., Immunoassay on a single microparticle: the effect of particle size and number on a miniaturized time-resolved fluorometric assay of free prostate-specific antigen, 387 (1999) 11

Harms, A.V., van Elteren, J.T., Wolterbeek, H.Th. and de Goeij, J.J.M., A dual radiotracer speciation technique with emphasis on probing of artefacts: a case study for technetium and spinach (Spinacia oleracea L.), 394 (1999) 271

Harms, D. and Karst, U., Rapid and selective determination of peroxyacetic acid in disinfectants using flow injection analysis, 389 (1999) 233

Haro, I., Busquets, M.A., Ortiz, A., Reig, F. and Alsina, M.A., Analysis of the perturbation of phospholipid model membranes by a multiple antigenic peptide, 303 (1995) 57

Haro, I., see Pérez, J.A., 303 (1995) 65

Harp, D.L., Modifications to the azomethine-H method for determining boron in water, 346 (1997) 373

Harrington, P.B., see Zheng, P., 310 (1995) 485

Harrington, P.d.B., see Tandler, P.J., 312 (1995) 231

Harrington, P.d.B., see Tandler, P.J., 368 (1998) 45

Harriott, M., see Burns, D.T., 311 (1995) 93

Harris, J.M., see Fister, J.C., 348 (1997) 311

Harris, J.W., see McDonald, I., 333 (1996) 41

Harris, P.M., see Cox, M.G., 380 (1999) 339

Harris, R.D., see Brecht, A., 362 (1998) 69

Harris, R.D., see Mouvet, C., 338 (1997) 109

Harris, S., see McSweeney, C.C., 346 (1997) 93

Harris, S.J., see Grady, T., 336 (1996) 1

Harris, T., see Ranville, J.F., 381 (1999) 315

Harrison, R.M., see Mikac, N., 326 (1996) 57 Harsányi, G., see Dobay, R., 385 (1999) 187

Hart, A.L., Matthews, C. and Collier, W.A., Estimation of lactate in meat extracts by screen-printed sensors, 386 (1999) 7

Hart, B.T., see Benson, R.L., 326 (1996) 29

Hart, B.T., see McKelvie, I.D., 316 (1995) 277

Hart, B.T., see Porter, N., 308 (1995) 313

Hart, J.P. and Abass, A.K., A disposable amperometric gas sensor for sulphur-containing compounds based on a chemically modified screen printed carbon electrode coated with a hydrogel, 342

Hart, J.P., see Abass, A.K., 373 (1998) 1

Hart, J.P., see Pemberton, R.M., 390 (1999) 107

Hart, J.P., see Sprules, S.D., 304 (1995) 17

Hart, J.P., see Sprules, S.D., 329 (1996) 215

Harth, R., see Mayo, N., 310 (1995) 139

Härtl, A., see Mrestani, Y., 349 (1997) 207

Hartley, I.C., see Sprules, S.D., 329 (1996) 215 Hartmann, C., see Heyden, Y.V., 312 (1995) 245

Hartmann, C., see Heyden, Y.V., 316 (1995) 15

Hartmann, C., Smeyers-Verbeke, J., Penninckx, W. and Massart, D.L., Detection of bias in method comparison by regression analysis, 338 (1997) 19

Hartmann, C., Vankeerberghen, P., Smeyers-Verbeke, J. and Massart, D.L., Robust orthogonal regression for the outlier detection when comparing two series of measurement results, 344 (1997) 17

Hartnett, M.K., Bos, M., van der Linden, W.E. and Diamond, D., Determination of stability constants using genetic algorithms, 316 (1995) 347

Haruyama, T., see Kim, E.J., 394 (1999) 225

Haruyama, T., see Másson, M., 304 (1995) 353

Harvey, K.K., see Burns, D. Thorburn, 362 (1998) 171

Harvey, M.D., see Little, M.J., 339 (1997) 279

Harzdorf, C., Janser, G., Rinne, D. and Rogge, M., Application of microwave digestion to trace organoelement determination in water samples, 374 (1998) 209

Hasebe, K., see Fukushima, M., 302 (1995) 365

Hasebe, K., see Hu, W., 353 (1997) 143

Hasebe, K., see Shun-an, C., 331 (1996) 257

Hasebe, K., see Tanaka, S., 337 (1997) 351

Hasebe, T., see Saitoh, K., 376 (1998) 247

Hasebe, Y., Gokan, A. and Uchiyama, S., Chemically amplified xanthine and hypoxanthine sensors based on substrate recycling between the enzyme-substrate complex and substrate, 302 (1995) 21

Hasebe, Y., see Uchiyama, S., 351 (1997) 259

Hasebe, Y., Yokobori, K., Fukasawa, K., Kogure, T. and Uchiyama, S., Highly sensitive electrochemical determination of *Escherichia coli* density using tyrosinase-based chemically amplified biosensor, 357 (1997) 51

Hasegawa, H., see Sohrin, Y., 363 (1998) 11

Hashimoto, A., see Shikata, Y., 365 (1998) 241

Hashimoto, K., see Ito, K., 327 (1996) 29

Hashimoto, T., see Kurosawa, T., 365 (1998) 249

Hassan, N.M., see Mandal, R., 395 (1999) 309

Hassan, N.M., see Mandal, R., 395 (1999) 323

Hassan, S.S., Amer, M.M., Abd El-Fatah, S.A. and El-kosasy, A.M., Membrane sensors for the selective determination of fluorouracil, 363 (1998) 81

Hassan, S.S., Mahmoud, W.H., Elmosallamy, M.A. and Othman, A.H.M., Determination of metformin in pharmaceutical preparations using potentiometry, spectrofluorimetry and UV-visible spectrophotometry, 378 (1999) 299

Hassan, S.S., see Marzouk, S.A., 363 (1998) 57

Hassan, S.S.M., Abdel-Aziz, R.M. and Abbas, A.B., Potentiometric membrane sensors for the selective determination of cinnarizine in pharmaceutical preparations, 321 (1996) 47

Hassan, S.S.M., El-Bahnasawy, R.M. and Rizk, N.M., Potentiometric determination of salicylhydroxamic acid (urinary struvite stone inhibitor) based on the inhibition of urease activity, 351 (1997) 91

Hassan, S.S.M., Mahmoud, W.H. and Othman, A.H.M., Determination of ranitidine in pharmaceutical preparations using manual and flow injection potentiometry and spectrophotometry, 332 (1996) 39

Hassan, S.S.M., see Badr, I.H.A., 310 (1995) 211

Hassan, S.S.M., see Badr, I.H.A., 321 (1996) 11

Hässelbarth, W., see Bremser, W., 348 (1997) 61

Hassellöv, M., see Lyvén, B., 357 (1997) 187

Hassoon, S. and Schechter, I., A sensitive fluorescence probe for DDT-type pesticides, 368 (1998) 77

Haswell, S.J. and Howarth, N., Perturbation of a solid phase separation process by a non-thermal microwave effect, 387 (1999) 113

Haswell, S.J. and Walmsley, A.D., Chemometrics: the issues of measurement and modelling, 400 (1999) 399 Haswell, S.J., see Daykin, R.N.C., 313 (1995) 155

Haswell, S.J., see Doku, G.N., 382 (1999) 1

Haswell, S.J., see Donachie, A., 378 (1999) 235

Haswell, S.J., see Greenway, G.M., 387 (1999) 1

Haswell, S.J., see Haines, E.S., 337 (1997) 191

Haswell, S.J., see Haines, E.S., 337 (1997) F Haswell, S.J., see Sadok, S., 321 (1996) 69

Haswell, S.J., see Sadok, S., 334 (1996) 279

Haswell, S.J., see Savage, I., 376 (1998) 145

Hatano, H., see Hanai, T., 332 (1996) 213

Hattingh, C.J., see van Staden, J.F., 308 (1995) 214

Hattingh, C.J., see van Staden, J.F., 308 (1995) 222

Hattori, H., see Yuchi, A., 387 (1999) 189

Hatzimihalis, G., see Pantsar-Kallio, M., 393 (1999) 181

Hauer Larsen, L., see Kjær, T., 391 (1999) 57

Hauer, B., see Zocher, F., 391 (1999) 345

Haug, C., see Sures, B., 311 (1995) 135

Hauser, P.C., Chiang, D.W.L. and Wright, G.A., A potassium-ion selective electrode with valinomycin based poly(vinyl chloride) membrane and a poly(vinyl ferrocene) solid contact, 302 (1995) 241

Hauser, P.C., see Hodgson, A.W.E., 393 (1999) 43

Hauser, P.C., see Kappes, T., 350 (1997) 141

Hauser, P.C., see Kappes, T., 354 (1997) 129

Hauser, P.C., see Kappes, T., 393 (1999) 77

Hauser, P.C., see Müller, B., 320 (1996) 69

Hausermann, B.P., see Lucy, C.A., 307 (1995) 173

Hausner, S., see Mark, Jr., H.B., 385 (1999) 281

Havel, J., see Hernández, O., 320 (1996) 177

Hawke, D.J., Powell, H.K.J. and Simpson, S.L., Equilibrium modelling of interferences in the visible spectrophotometric determination of aluminium(III): comparison of the chromophores chrome azurol S, eriochrome cyanine R and pyrocatechol violet, and stability constants for eriochrome cyanine R-aluminium complexes, 319 (1996) 305

Hawkins, P., see Choi, M.F., 344 (1997) 105

Hawkins, P., see Ming Fat, C., 309 (1995) 27

Hawkins, S.J., Ratcliffe, N.M. and Sagastizabal, A., The use of thin silver films for the detection of low concentrations of hydrogen sulphide, 359 (1998) 125

Hayakawa, K., Hirano, M., Oizumi, J. and Hosoya, M., Isoelectric focusing of biotinidase and lipoamidase with the addition of nonionic detergent, 372 (1998) 281

Hayakawa, K., see Murahashi, T., 343 (1997) 251

Hayano, K., see Shibutani, Y., 375 (1998) 81

Hayashi, C., see Sasaki, S., 347 (1997) 275

Hayashi, H., see Ozawa, K., 365 (1998) 3

Hayashi, K., Sasaki, S., Ikebukuro, K. and Karube, I., Highly sensitive chemiluminescence flow injection analysis system using microbial peroxidase and a photodiode detector, 329 (1996) 127

Hayashi, K., see Hemmi, A., 316 (1995) 323

Hayashi, M., see Takenaka, M., 336 (1996) 151

Hayashi, M., see Terato, H., 365 (1998) 183

Hayashi, M., see Watanabe, S., 376 (1998) 93

Hayashi, Y., see Higashi, T., 365 (1998) 151

Hayashi, Y., see Shikata, Y., 365 (1998) 241

Hayon, J., see Mayo, N., 310 (1995) 139

Hayward, M.J., see Dongré, A.R., 327 (1996) 1

Hazen, K.H., Arnold, M.A. and Small, G.W., Measurement of glucose and other analytes in undiluted human serum with near-infrared transmission spectroscopy, 371 (1998) 255

He, C., Fischer, S., Kullak-Ublick, G.A., Domingo, N., Lafont, H. and Jüngst, D., Electrophoretic analysis of proteins in bile, 383 (1999) 185

He, C., see Cui, H., 362 (1998) 151

He, H.-B., Siow, K.-S., Chi, H., Gao, Z.-Q. and Hsieh, A.-K., Determination of molybdenum using polarographic catalytic current, 309 (1995) 73

He, P., Ye, J., Fang, Y., Suzuki, I. and Osa, T., Voltammetric responsive sensors for organic compounds based on organized self-assembled lipoyl-β-cyclodextrin derivative monolayer on a gold electrode, 337 (1997) 217

He, Q., see Wang, W., 375 (1998) 261

He, X., see Zhou, J., 394 (1999) 353

He, X., Tubino, M. and Rossi, A.V., Selective and sensitive spectrophotometric determination of total vanadium with hydrogen peroxide and 4-(2-pyridylazo)-resorcinol, 389 (1999) 275

He, X.-W., see Xing, W.-L., 349 (1997) 283

He, Y.-N. and Chen, H.-Y., The kinetics-based electrochemical determination of serum glutamate pyruvate transaminase activity with a gold microelectrode, 353 (1997) 319

Healey, B.G., see Ferguson, J.A., 340 (1997) 123

Heberer, T. and Stan, H.-J., Detection of more than 50 substituted phenols as their t-butyldimethylsilyl derivatives using gas chromatography-mass spectrometry, 341 (1997) 21

Heckert, D.M., see Zhou, J., 379 (1999) 307

Hedenfalk, M., Adlercreutz, P. and Mattiasson, B., Modulation of the measuring range of a radioimmunoassay using an organic water two phase system, 341 (1997) 269

Hedlund, P. and Gustavsson, A., Design and evaluation of an improved simplex method, 371 (1998) 9

Hedlund, P. and Gustavsson, A., Design and evaluation of an effective modified simplex method, 391 (1999) 257

Heginbothom, M.L., see Goodacre, R., 348 (1997) 511

Heikka, R. and Minkkinen, P., Comparison of some methods to estimate the limiting value of the variogram, v<sub>h</sub>(j), for the sampling interval j=0 in sampling error estimation, 346 (1997) 277

Heikka, R.A., Immonen, K.T., Minkkinen, P.O., Paatero, E.Y.O. and Salmi, T.O., Determination of acid value, hydroxyl value and water content in reactions between dicarboxylic acids and diols using near-infrared spectroscopy and non-linear partial least squares regression, 349 (1997) 287

Heiman, A. and Licht, S., Fundamental baseline variations in aqueous near-infrared analysis, 394 (1999) 135

Heineman, W.R., see Barroso-Fernandez, B., 370 (1998) 221

Heineman, W.R., see Hu. Z., 369 (1998) 93

Heineman, W.R., see Wijayawardhana, C. Ajith, 399 (1999) 3

Heinemann, G., Jacob, K. and Vogt, W., Wet sample digestion for quantification of vanadium(V) in serum by electrothermal atomic absorption spectrometry, 386 (1999) 145

Heiss, C., Weller, M.G. and Niessner, R., Dip-and-read test strips for the determination of trinitrotoluene (TNT) in drinking water, 396 (1999) 309 Heisterkamp, M., see Gerbersmann, C., 350 (1997) 273

Heleg-Shabtai, V., see Katz, E., 385 (1999) 45

Helie-Fourel, I., see Le Botlan, D., 311 (1995) 217

Helin, M., see Kulmala, S., 359 (1998) 71

Helin, M., see Kulmala, S., 386 (1999) 1

Helin, M., see Kulmala, S., 398 (1999) 41

Heller, A., see Vijayakumar, A.R., 327 (1996) 223

Helliwell, S., see Simon, D., 360 (1998) 1

Hellström, A., see Pihlström, T., 356 (1997) 155

Hellweg, C.E., see Baumstark-Khan, C., 387 (1999) 281
Hemmi, A., Yagiuda, K., Funazaki, N., Ito, S., Asano, Y., Imato, T.,
Hayashi, K. and Karube, I., Development of a chemilumines-

Hayashi, K. and Karube, I., Development of a chemiluminescence detector with photodiode detection for flow-injection analysis and its application to ℓ-lactate analysis, 316 (1995) 323

Henden, E., see Çelik, A., 333 (1996) 295

Henderson, A.N., see Sentell, K.B., 307 (1995) 203

Henderson, T.L.E., see Huang, W., 304 (1995) 1

Hengwu, C., Jincao, J. and Yufeng, W., Flow injection on-line coprecipitation-preconcentration system using copper(II) diethyldithiocarbamate as carrier for flame atomic absorption spectrometric determination of cadmium, lead and nickel in environmental samples, 353 (1997) 181

Henke, L., Piunno, P.A.E., McClure, A.C. and Krull, U.J., Covalent immobilization of single-stranded DNA onto optical fibers using various linkers, 344 (1997) 201

Hennion, M.C. and Barcelo, D., Strengths and limitations of immunoassays for effective and efficient use for pesticide analysis in water samples: A review, 362 (1998) 3

Hennion, M.-C., see Barceló, D., 318 (1995) 1

Hennion, M.C., see Barceló, D., 338 (1997) 3

Hennion, M.C., see Ben Rejeb, S., 376 (1998) 41

Hennion, M.-C., see Pichon, V., 311 (1995) 429

Hennion, M.C., see Pichon, V., 376 (1998) 21

Hennion, M.-C., see Rivasseau, C., 394 (1999) 243

Hennion, M.C., see Rivasseau, C., 399 (1999) 75 Hennon, G., see Leflon, P., 327 (1996) 301

Henriksson, G., see Larsson, T., 331 (1996) 207

Henry, M., see Hsueh, C.C., 397 (1999) 135

Henze, G., see Faller, C., 396 (1999) 195

Henze, G., see Greulach, U., 306 (1995) 217

Henze, G., see Heppeler, F., 319 (1996) 19

Henze, G., see Sander, S., 305 (1995) 154

Henze, G., see Sander, S., 349 (1997) 93

Henze, G., see Stojko, N.Yu., 371 (1998) 145

Heon Lee, C., Yul Suh, M., Suk Kim, J., Yang Kim, D., Ho Kim, W. and Yoon Eom, T., Separation and preconcentration of uranium from geological materials with chelating resin containing 4-(2-thiazolylazo)resorcinol functional groups, 382 (1999) 199

Heppeler, F., Sander, S. and Henze, G., Determination of tin traces in water samples by adsorptive stripping voltammetry, 319 (1996)

Heppert, K.E. and Davies, M.I., Using a microdialysis shunt probe to monitor phenolphthalein glucuronide in rats with intact and diverted bile flow, 379 (1999) 359

Her, G.R., see Juo, C.G., 311 (1995) 153

Herbreteau, B., see Salvador, A., 359 (1998) 57

Herges, R., see Weigel, U.M., 331 (1996) 63

Herguedas, M.M., see Vega, M., 310 (1995) 131

Herman, M.R., see Kim, J., 370 (1998) 251

Hernández Méndez, J., see Delgado Zamarreño, M.M., 386 (1999)

Hernández, F., see Beltran, J., 356 (1997) 125

Hernández, F., see Hidalgo, C., 338 (1997) 223

Hernández, F., Serrano, R., Pitarch, E. and López, F.J., Automated sample clean-up procedure for organophosphorus pesticides in several aquatic organisms using normal phase liquid chromatography, 374 (1998) 215

Hernández, J., see Sánchez-Pedreño, C., 333 (1996) 107

Hernández, J.A., see López-de-Alba, P.L., 330 (1996) 19

Hernández, L., Hernández, P. and Patón, F., Adsorptive stripping determination of indole-3-acetic acid at a carbon fiber ultramicroelectrode, 327 (1996) 117

Hernández, L., Hernández, P., Rica, M. and Galán, F., Determination of Zeatin in plant extracts by square wave stripping polarography and differential pulse stripping polarography, 315 (1995) 33

Hernandez, L., Hernandez, P., Vicente, J. and Blanco, M.H., Determination of N-nitrosomorpholine using square wave voltammetry, 356 (1997) 239

Hernández, L., see Abad, J.M., 368 (1998) 183

Hernández, L., see Chicharro, M., 379 (1999) 81

Hernández, L., see Conesa, A.J., 331 (1996) 111

Hernández, L., see Hernández, P., 305 (1995) 340

Hernández, L., see La Rosa, C., 308 (1995) 129

Hernandez, L., see Ortiz Viana, M. Mar, 382 (1999) 179

Hernández, L., see Perlado, J.C., 305 (1995) 83

Hernández, L., see Pinilla, J.M., 319 (1996) 25

Hernández, L., see Tobalina, F., 358 (1998) 15

Hernández, L., Zapardiel, A., Bermejo, E., Pérez-López, J.A. and Pérez-Fernández, J.C., Electrochemical studies of ethamivan at glassy-carbon and platinum electrodes and its determination in urine by differential pulse voltammetry, 336 (1996) 85

Hernández, L.M., see Ramos, L., 376 (1998) 313

Hernández, M., see Rodríguez, J., 345 (1997) 121

Hernández, O., Jiménez, A.I., Jiménez, F. and Arias, J.J., Evaluation of multicomponent flow-injection analysis data by use of a partial least squares calibration method, 310 (1995) 53

Hernández, O., Jiménez, F., Jiménez, A.I., Arias, J.J. and Havel, J., Multicomponent flow injection based analysis with diode array detection and partial least squares multivariate calibration evaluation. Rapid determination of Ca(II) and Mg(II) in waters and dialysis liquids, 320 (1996) 177

Hernández, O., see García, J.M., 317 (1995) 83

Hernández, O.M., see Martín, M.E., 381 (1999) 247

Hernández, P., Nieto, O. and Hernández, L., Determination of recombinant human erythropoietin by square wave voltammetry, 305 (1995) 340

Hernández, P., see Hernández, L., 315 (1995) 33

Hernández, P., see Hernández, L., 327 (1996) 117

Hernandez, P., see Hernandez, L., 356 (1997) 239

Hernández-Ayón, J. Martín, Belli, S.L. and Zirino, A., pH, alkalinity and total CO<sub>2</sub> in coastal seawater by potentiometric titration with a difference derivative readout, 394 (1999) 101

Hernández-Brito, J.J., see Collado-Sánchez, C., 320 (1996) 19

Hernández-Cassou, S., see Cabero, C., 381 (1999) 307

Hernández-Cassou, S., see Saurina, J., 312 (1995) 189

Hernández-Cassou, S., see Saurina, J., 335 (1996) 41

Hernández-Cassou, S., see Saurina, J., 371 (1998) 49

Hernández-Cassou, S., see Saurina, J., 371 (1998) 49 Hernández-Cassou, S., see Saurina, J., 396 (1999) 151

Hernandez-Cassou, 5., see Saurina, J., 590 (1999) 151

Hernández-Córdoba, M., see Campillo, N., 390 (1999) 207

Hernández-Córdoba, M., see López-García, I., 396 (1999) 279

Hernández-Córdoba, M., see López-García, I., 327 (1996) 83

Hernández-Córdoba, M., see López-García, I., 328 (1996) 19

Hernández-Córdoba, M., see Viñas, P., 356 (1997) 267 Hernández-Coronado, M.J., see Rodríguez, J., 345 (1997) 121

Hernández-Hernández, L., see Molina-Holgado, T., 309 (1995) 117

Hernandez-Mendez, J., see Delgado-Zamarreño, M.M., 315 (1995)

Herne, R., Brocas, J. and Vander Donckt, E., The response time of optical sensors based on luminescence quenching, 364 (1998) 131

Herold, M., see Leipert, D., 392 (1999) 213

Herrador, M. Angeles, see González, A. Gustavo, 356 (1997) 253 Herráez-Hernández, R., see Campins-Falcó, P., 344 (1997) 125

Herraiz, T., Sample preparation and reversed phase-high performance liquid chromatography analysis of food-derived peptides, 352 (1997) 119

Herraiz, T., see Casal, V., 326 (1996) 77

Herrera-Melian, J.A., see Collado-Sánchez, C., 320 (1996) 19

Herrero, A. and Cruz Ortiz, M., Qualitative and quantitative aspects of the application of genetic algorithm-based variable selection in polarography and stripping voltammetry, 378 (1999) 245

Herrero, A. and Ortiz, M.C., Multivariate calibration transfer applied to the routine polarographic determination of copper, lead, cadmium and zinc, 348 (1997) 51

Herzl, V., see Whitworth, D.-J., 392 (1999) 3

Heselius, S.-J., see Lill, J.-O., 378 (1999) 273

Hesketh, N., Jones, M.N. and Tipping, E., The interaction of some pesticides and herbicides with humic substances, 327 (1996) 191

Hesketh, N., see Jones, M.N., 314 (1995) 149

Heuerding, S., see Candolfi, A., 345 (1997) 185

Heuerding, S., see Wu, W., 329 (1996) 257

Heyden, Y.V., Bourgeois, A. and Massart, D.L., Influence of the sequence of experiments in a ruggedness test when drift occurs, 347 (1997) 369

Heyden, Y.V., Hartmann, C., Massart, D.L., Michel, L., Kiechle, P. and Erni, F., Ruggedness tests for a high-performance liquid chromatographic assay: comparison of an evaluation at two and three levels by using two-level Plackett-Burman designs, 316 (1995) 15

Heyden, Y.V., Luypaert, K., Hartmann, C., Massart, D.L., Hoogmartens, J. and De Beer, J., Ruggedness tests on the highperformance liquid chromatography assay of the United States Pharmacopeia XXII for tetracycline hydrochloride. A comparison of experimental designs and statistical interpretations, 312 (1995) 245

Heyden, Y.V., see Bouveresse, E., 348 (1997) 283

Heyden, Y.V., see de Aguiar, P.F., 348 (1997) 223

Heyden, Y.V., see de Juan, A., 346 (1997) 307

Hibbert, D. Brynn, see Situmorang, M., 394 (1999) 211

Hibbert, D.B., see Chen, Z., 350 (1997) 1

Hibbert, D.B., see Di Benedetto, L.T., 321 (1996) 61

Hibbert, D.B., see van Kampen, A.H.C., 344 (1997) 1

Hickey, C., see Eggins, B.R., 347 (1997) 281

Hidalgo Hidalgo de Cisneros, J.L., see del Mar Cordero-Rando, M., 370 (1998) 231

Hidalgo Hidalgo de Cisneros, J.L., see Rodríguez, I.N., 344 (1997) 167

Hidalgo, C., Sancho, J.V. and Hernández, F., Trace determination of triazine herbicides by means of coupled-column liquid chromatography and large volume injection, 338 (1997) 223

Hidalgo, M., Montes, R., Laserna, J.J. and Rupérez, A., Surface-enhanced resonance Raman spectroscopy of 2-pyridylhydrazone and 1,10-phenanthroline chelate complexes with metal ions on colloidal silver, 318 (1996) 229

Hidalgo, M., see Anticó, E., 327 (1996) 267

Hidalgo, M., see Fontàs, C., 346 (1997) 199

Hieftje, G.M., see Pack, B.W., 383 (1999) 231

Hieftje, G.M., see Potyrailo, R.A., 367 (1998) 153

Hieftje, G.M., see Potyrailo, R.A., 370 (1998) 1

Hierlemann, A., Bodenhöfer, K., Fluck, M., Schurig, V. and Göpel, W., Selective detection of nitrogen and oxygen containing volatile organic compounds: use of metal-modified polysiloxanes as sensor coatings, 346 (1997) 327

Higashi, T., Kobayashi, N., Ohmi, H., Hayashi, Y. and Shimada, K., Enzyme-linked immunosorbent assay for plasma 24,25-dihydroxyvitamin D<sub>3</sub>, 365 (1998) 151

Higashida, M., see Hara, H., 364 (1998) 117

Higashiura, M., Uchida, H., Uchida, T. and Wada, H., Inductively coupled plasma mass spectrometric determination of gold in serum: comparison with flame and furnace atomic absorption spectrometry, 304 (1995) 317

Higson, S.P., see Myler, S., 357 (1997) 55

Higson, S.P., see Reddy, S.M., 343 (1997) 59

Hiiro, K., see Fukushi, K., 383 (1999) 205

Hikuma, M., Takeda, M., Matsuoka, H. and Karube, I., Reagentless enzyme-based sensor using a gas-permeable membrane for determination of alcohols, 306 (1995) 209

Hill, H.H., see Okemgbo, A.A., 396 (1999) 105

Hill, H.H., see Yong, H.C., 334 (1996) 75

Hill, S.J., see Lamble, K.J., 334 (1996) 261

Hill, S.J., see Nickson, R.A., 351 (1997) 311

Hind, A.R., Bhargava, S.K. and Cullis, P.G., Quantitation of quaternary ammonium compounds using electrospray mass spectrometry, 377 (1998) 39

Hinds, L., see Tam, S.C., 332 (1996) 241

Hindson, B.J., see Barnett, N.W., 362 (1998) 131

Hindson, B.J., see Barnett, N.W., 384 (1999) 151

Hines, C.J., see Mastin, J.P., 376 (1998) 119

Hintsche, R., see Paeschke, M., 305 (1995) 126

Hioki, A., see Toda, E., 333 (1996) 51

Hipólito-Moreno, A., León-González, M.E., Pérez-Arribas, L.V. and Polo-Díez, L.M., Non-aqueous flow-injection determination of atrazine by inhibition of immobilized tyrosinase, 362 (1998) 187

Hiraide, M., Chen, Z.-S., Sugimoto, K. and Kawaguchi, H., Coprecipitation with tin (IV) hydroxide followed by removal of tin carrier for the determination of trace heavy metals by graphite-furnace atomic absorption spectrometry, 302 (1995) 103

Hiraide, T., see Watanabe, T., 386 (1999) 69

Hirakawa, T., see Suzuki, H., 387 (1999) 103

Hirakawa, Y., Tokunaga, N., Nakamura, K. and Imasaka, T., Development of a vacuum ultraviolet laser source and its application to the evaluation of phosphor materials for a plasma display panel, 389 (1999) 69

Hirano, M., see Hayakawa, K., 372 (1998) 281

Hirano, S., see Saito, K., 378 (1999) 43

Hirata, Y., see Mizutani, F., 314 (1995) 233

Hirata, Y., see Mizutani, F., 364 (1998) 173

Hiratsuka, A., see Lee, K.H., 398 (1999) 161

Hirayama, N. and Umehara, W., Novel separation of inorganic anions using a charged complex ion-exchanger, 334 (1996)

Hirayama, N., Iimuro, S., Kubono, K., Kokusen, H. and Honjo, T., Ion-pair extraction behavior of transition metal(II) cations as charged complexes with ethylenediamine derivatives having heterocyclic pendant arms, 339 (1997) 115

Hirodo, H., see Katsu, T., 396 (1999) 189

Hirokawa, K., see Wagatsuma, K., 306 (1995) 193

Hirokawa, K., see Wagatsuma, K., 324 (1996) 147

Hirokawa, K., see Wagatsuma, K., 343 (1997) 267

Hirokawa, T., see Ito, K., 362 (1998) 241

Hirose, K., Akizawa, T. and Yoshioka, M., Preparation of monoclonal antibody against D-3-methoxy-4-hydroxyphenylglycol, 365 (1998) 129

Hirose, K., Akizawa, T., Asada, K., Tanaka, Y., Negoro, Y. and Yoshioka, M., Syntheses of antigens conjugated with 3-methoxy-4-hydroxyphenylglycol by Mannich reaction for enzyme immunoassay, 365 (1998) 137

Hirose, K., see Darwish, I., 365 (1998) 121

Hiroshi, S., see Nakanishi, K., 325 (1996) 73

Hirshfeld, A., see Almog, J., 322 (1996) 203

Hirshfeld, A., see Almog, J., 334 (1996) 223

Hisamatsu, S., see Sonoki, S., 365 (1998) 213

Hisamoto, H., Kim, K.-H., Manabe, Y., Sasaki, K., Minamitani, H. and Suzuki, K., Ion-sensitive and selective active waveguide optodes, 342 (1997) 31

Hisamoto, H., Satoh, S., Satoh, K., Tsubuku, M., Siswanta, D., Shichi, Y., Koike, Y. and Suzuki, K., Theory and practice of rapid flow-through analysis based on ion-selective optode detection and its application to sodium ion determination, 396 (1999) 131

Hisamoto, H., see Kyungho, K., 343 (1997) 199

Hisamoto, H., Siswanta, D., Nishihara, H. and Suzuki, K., Anion selective polymeric membrane electrodes based on metallocenes, 304 (1995) 171

Hisamoto, H., Tohma, H., Yamada, T., Yamauchi, K.i., Siswanta, D., Yoshioka, N. and Suzuki, K., Molecular design, characterization, and application of multi-information dyes for multi-dimensional optical chemical sensing. Molecular design concepts of the dyes and their fundamental spectral characteristics, 373 (1998) 271

Hitchen, S.M., see Makovskaya, V., 315 (1995) 183

Hitzmann, B., Löhn, A., Arndt, M., Ulber, R. and Müller, C., A new evaluation technique for FIA measurements: projective reference evaluation, 348 (1997) 161 Hitzmann, B., Löhn, A., Reinecke, M., Schulze, B. and Scheper, T., The automation of immun-FIA-systems, 313 (1995) 55

Hitzmann, B., Ritzka, A., Ulber, R., Scheper, T. and Schügerl, K., Computational neural networks for the evaluation of biosensor FIA measurements, 348 (1997) 135

Hitzmann, B., see Amárita Vega, F., 373 (1998) 57

Hitzmann, B., see Scheper, T., 400 (1999) 121

Hitzmann, B., see Schöngarth, K., 363 (1998) 183

Hitzmann, B., see Ulber, R., 373 (1998) 253

Hitzmann, B., see van Putten, A.B., 317 (1995) 247

Hiyama, T., Takahashi, T. and Kamimura, K., Determination of nitrogen in uranium-plutonium mixed oxide fuel by gas chromatography after fusion in an inert gas atmosphere, 345 (1997) 131

Hlavay, J., see Barkó, G., 367 (1998) 135

Hlavay, J., see Barkó, G., 398 (1999) 219

Ho Kim, W., see Heon Lee, C., 382 (1999) 199

Ho Shin, J., see Jun Yoon, I., 367 (1998) 175

Hobbs, S.E., see Potyrailo, R.A., 367 (1998) 153

Hobman, J.L., see Corbisier, P., 387 (1999) 235

Hobo, T., see Jin-Ming, L., 323 (1996) 69

Hobo, T., see Xing-Zheng, W., 316 (1995) 111

Hock, B., Antibodies for immunosensors, 347 (1997) 177

Hock, B., Dankwardt, A., Kramer, K. and Marx, A., Immunochemical techniques: antibody production for pesticide analysis. A review, 311 (1995) 393

Hock, B., see Dankwardt, A., 362 (1998) 35

Hock, B., see Sasaki, S., 368 (1998) 71

Hock, B., see Seifert, M., 386 (1999) 191

Hodgkinson, M., see Yongnian, N., 316 (1995) 233

Hodgson, A.W.E., Jacquinot, P., Jordan, L.R. and Hauser, P.C., Amperometric gas sensors with detection limits in the low ppb range, 393 (1999) 43

Hödrejärv, H. and Vaarmann, A., Pseudo-total analysis for metallic elements in siliceous soil by acid digestion and flame atomic absorption spectrometry, 396 (1999) 293

Hoekstra, J.C. and Johnson, D.C., Waveform optimization for integrated square-wave detection of biogenic amines following their liquid chromatographic separation, 390 (1999) 45

Hoekstra, J.C., see Dobberpuhl, D.A., 322 (1996) 55

Hoenig, M., Baeten, H., Vanhentenrijk, S., Vassileva, E. and Quevauviller, P., Critical discussion on the need for an efficient mineralization procedure for the analysis of plant material by atomic spectrometric methods, 358 (1998) 85

Hofer, J.D., see Carlson, A.D., 352 (1997) 221

Hoffmann, R., Segal, M. and Otvos, L., Separation of sets of monoand diphosphorylated peptides by reversed-phase high performance liquid chromatography, 352 (1997) 327

Hoffmann, R., Vasko, M. and Otvos, L., Serum stability of phosphopeptides, 352 (1997) 319

Hoffmann, W., see Backofen, U., 362 (1998) 213

Hofstetter, H., Hofstetter, O. and Wistuba, D., Chiral interaction of a polyclonal anti-dinitrophenyl antibody with dinitrophenyl-amino acids determined by an enantioselective enzyme-linked immunosorbent assay, 332 (1996) 285

Hofstetter, O., see Hofstetter, H., 332 (1996) 285 Hofstraat, J.W., see Nuijens, M.J., 311 (1995) 47 Hogan, C.F. and Forster, R.J., Mediated electron transfer for electroanalysis: transport and kinetics in tin films of [Ru (bpy)<sub>2</sub>PVP<sub>10</sub>] (ClO<sub>4</sub>)<sub>2</sub>, 396 (1999) 13

Högg, G., Lutze, O. and Cammann, K., Novel membrane material for ion-selective field-effect transistors with extended lifetime and improved selectivity, 335 (1996) 103

Hohberger, R., see Benecke, C., 314 (1995) 141

Höhne, W., see Stöcklein, W.F., 362 (1998) 101

Holcombe, D.G., Neidhart, B., Radvila, P., Steck, W. and Wegscheider, W., Quality assurance good practice for research and development and non-routine analysis, 393 (1999) 157

Hollósy, F., see Idei, M., 372 (1998) 273

Holst-Hansen, P., see Andersen, N.P.R., 329 (1996) 253

Holthuis, J.J.M., see Steijger, O.M., 320 (1996) 99

Holthuis, J.J.M., see van de Merbel, N.C., 303 (1995) 175

Holzer, R., see Berset, J.D., 383 (1999) 263

Homma, H., see Prados, P., 344 (1997) 227

Honda, Y., see Kawakubo, S., 388 (1999) 35

Hong Chan, W., Lee, A.W. and Lu, J.Z., Optode for the specific determination of anionic surfactants, 361 (1998) 55

Hong Chan, W., M. Lee, A.W., Lu, J. and Wu, X., Optosensing of cationic surfactants based on host-guest chemistry, 370 (1998) 259

Hong, F., see Zhang, X.X., 392 (1999) 175

Hong, F., Zhang, X.X., Chang, W.B. and Ci, Y.X., Synthesis of enantiomeric selective α<sub>1</sub>-acid glycoprotein (AGP)-bonded capillary and its application in capillary electrophoresis, 373 (1998) 207

Hong, L. and Smart, R.B., Determination of sub-nanomolar concentration of arsenic(III) in natural waters by square wave cathodic stripping voltammetry, 325 (1996) 25

Hong, L. and Smart, R.B., Catalytic stripping voltammetry of vanadium in the presence of dihydroxynaphthalene and bromate, 333 (1996) 131

Hong, S., see Chisholm, W., 311 (1995) 141

Hong, Z., see Kang, C., 329 (1996) 83

Hong, Z., see Zheng-Qi, Z., 333 (1996) 119

Hongbin, S., see Huangxian, J., 327 (1996) 125

Hongding, X., see Changqing, S., 309 (1995) 89

Hongding, X., see Changqing, S., 312 (1995) 207
Honglan, S., Yongqin, M. and Yinfa, M., A simple and fast method to determine and quantify urinary creatinine, 312 (1995) 79

Hong-Ren, C., see Shuenn-Jyi, S., 309 (1995) 361

Hongwei, Z., Li, J. and Zhide, H., The mutual relationships between applied voltage, migration time and peak area in capillary zone electrophoresis, 342 (1997) 59

Hongying, C., see Xingyao, Z., 329 (1996) 105

Hongying, Z., Xiangzhu, X. and Peibiao, L., Application of Fourier transform to four-electrode microvoltammetric system for studies on micro-ITIES electroanalysis, 382 (1999) 137

Hong-Yuan, C., see Chen-Xin, C., 310 (1995) 145

Hong-Yuan, C., see Dan-Ke, X., 335 (1996) 95

Hong-yuan, C., see Dong-mei, Z., 329 (1996) 41

Hongyuan, C., see Genxi, L., 319 (1996) 275

Hongyuan, C., see Huangxian, J., 327 (1996) 125

Hongzhi, X., Chuan, D., Weijun, J., Yansheng, W., Changsong, L., Sushe, Z. and Bailing, Z., Solid surface room temperature phosphorescence of tetracycline antibiotics, 319 (1996) 239 Honjo, T., see Hirayama, N., 339 (1997) 115

Honorato, R.S., Araújo, M.C.U., Lima, R.A., Zagatto, E.A., Lapa, R.A. and Costa Lima, J.L., A flow-batch titrator exploiting a onedimensional optimisation algorithm for end point search, 396 (1999) 91

Honorato, R.S., see Silva, E.C., 319 (1996) 153

Hoogendijk, R., A compact titration configuration for process analytical applications, 378 (1999) 211

Hoogerbrugge, R., Gort, S.M., van der Velde, E.G. and Piet van Zoonen, Multi- and univariate interpretation of the interlaboratory validation of PrEN 12673; GC determination of chlorophenols in water, 388 (1999) 119

Hoogerbrugge, R., Molins, C. and Baumann, R.A., Effects of parameters on microwave assisted extraction of triazines from soil: evaluation of an optimisation trajectory, 348 (1997) 247

Hoogerbrugge, R., see Cleij, P., 348 (1997) 495

Hoogmartens, J., see Heyden, Y.V., 312 (1995) 245

Hooper, M., see Wu, X., 374 (1998) 61

Hoornaert, S., see Ro, C.U., 389 (1999) 151

Hoornweg, G.P., see de Beer, T., 330 (1996) 189

Hoornweg, G.P., see de Beer, T., 390 (1999) 55

Hopke, P.K. and Song, X.-H., Classification of single particles by neural networks based on the computer-controlled scanning electron microscopy data, 348 (1997) 375

Hopke, P.K., see Wienke, D., 310 (1995) 1

Hopke, P.K., see Xie, Y., 384 (1999) 193

Hopke, P.K., see Xie, Y., 392 (1999) 347

Hopke, P.K., see Xin-Hua, S., 334 (1996) 57

Hoppstock, K. and Michulitz, M., Voltammetric determination of trace platinum in gasoline after Wickbold combustion, 350 (1997) 135

Hoppstock, K., see León, C., 356 (1997) 99

Horáček, J. and Skládal, P., Improved direct piezoelectric biosensors operating in liquid solution for the competitive label-free immunoassay of 2,4-dichlorophenoxyacetic acid, 347 (1997) 43

Hörchner, U. and Kalivas, J.H., Further investigation on a comparative study of simulated annealing and genetic algorithm for wavelength selection, 311 (1995) 1

Horie, H. and Rechnitz, G.A., Hybrid tissue/enzyme biosensor for pectin, 306 (1995) 123

Horike, N., see Ishida, J., 302 (1995) 61

Horita, K., Genfeng, W. and Satake, M., Spectrophotometric determination of nitrate and nitrite in soil and water samples with a diazotizable aromatic amine and coupling agent using column preconcentration on naphthalene supported with ion-pair of tetradecyldimethylbenzylammonium and iodide, 350 (1997) 295

Horiuchi, T., see Niwa, O., 318 (1996) 167

Horneck, G., see Baumstark-Khan, C., 387 (1999) 281

Horneck, G., see Rettberg, P., 387 (1999) 289

Horseman, G., see Rigby, G.P., 385 (1999) 23

Horváth, E., Gajári, J., Kristóf, J., Rédey, A. and Kocsis, L., Monitoring of enzyme catalysed reactions by Fourier transform Raman spectrometry, 370 (1998) 191

Horváth, V., see Bereczki, A., 391 (1999) 9

Horwitz, E.P., Dietz, M.L., Chiarizia, R., Diamond, H., Maxwell, S.L. and Nelson, M.R., Separation and preconcentration of actinides by extraction chromatography using a supported liquid anion exchanger: application to the characterization of high-level nuclear waste solutions, 310 (1995) 63

Hoshi, S., see Sugawara, K., 353 (1997) 301

Hosoi, Y., see Aoki, T., 349 (1997) 11

Hosoya, M., see Hayakawa, K., 372 (1998) 281

Hossein Mashhadizadeh, M. and Shamsipur, M., Silver(I)-selective membrane electrode based on hexathia-18-crown-6, 381 (1999)

Hosten, E. and E. Rohwer, H., Complexation reactions of uranyl with arsenazo III, 355 (1997) 95

Hosten, E. and Rohwer, H., Interaction of anions with arsenazo IIIlanthanide (III) complexes, 345 (1997) 227

Hosten, E. and Welz, B., Evaluation of an immobilised macrocyclic material for on-line column preconcentration and separation of cadmium, copper and lead for electrothermal atomic absorption spectrometry, 392 (1999) 55

Hosten, E., see Rohwer, H., 314 (1995) 219

Hosten, E., see Rohwer, H., 339 (1997) 271

Hosten, E., see Rohwer, H., 341 (1997) 263

Hou, T., MacNamara, E. and Raftery, D., NMR analysis of multiple samples using parallel coils: improved performance using reference deconvolution and multidimensional methods, 400 (1999) 297

Hou, T., see MacNamara, E., 397 (1999) 9

Hou, X.p., see Chen, Q.c., 371 (1998) 287

Houben, A., Meulenberg, E., Noij, T., Gronert, C. and Stoks, P., Immuno affinity extraction of pesticides from surface water, 399 (1999) 69

Houdier, S., Legrand, M., Boturyn, D., Croze, S., Defrancq, E. and Lhomme, J., A new fluorescent probe for sensitive detection of carbonyl compounds, 382 (1999) 253

Houk, L.L., see Johnson, S.K., 341 (1997) 205

Houk, L.L., see Johnson, S.K., 389 (1999) 1

Houk, R.S., see Johnson, S.K., 341 (1997) 205

Houk, R.S., see Johnson, S.K., 389 (1999) 1

Houlne, M.P., O'Briant, S.P., Goebel, T. and Bornhop, D.J., Some spectroscopic and transport properties of a rare-earth chelate, Tb-PCTMP, 397 (1999) 267

Houping, H., Ruxiu, C., Yumin, D. and Yun'e, Z., Flow-injection stopped-flow spectrofluorimetric kinetic determination of total ascorbic acid based on an enzyme-linked coupled reaction, 309 (1995) 271

Houping, H., Ruxiu, C., Yumin, D., Zhixin, L. and Yun'e, Z., Micelle enhanced spectrofluorimetric assay for laccase activity by a flow-injection stopped-flow technique, 318 (1995) 63

Houping, H., see Zuyun, H., 374 (1998) 99

Houriet, R., see Vreeken, R.J., 313 (1995) 237

Howard, A.G. and Salou, C., Cysteine enhancement of the cryogenic trap hydride AAS determination of dissolved arsenic species, 333 (1996) 89

Howard, A.G., Freeman, C.E., Russell, D.W., Arbab-Zavar, M.H. and Chamberlain, P., Flow injection system with flame photometric detection for the measurement of the dimethylsulphide precursor β-dimethylsulphoniopropionate, 377 (1998) 95

Howard, A.G., see Warwick, P.E., 382 (1999) 225

Howarth, N., see Haswell, S.J., 387 (1999) 113

Hrijac, J.A., Eylem, C., Zhu, Q., Sabatini, R., Petrakis, L., Hu, R. and Block, J., On the use of X-ray powder diffraction for determining low levels of chrysotile asbestos in gypsum-based bulk materials: use of a synchrotron source, 350 (1997) 221

Hruška, K., see Šišák, M., 311 (1995) 415

Hsieh, A.-K., see He, H.-B., 309 (1995) 73

Hsieh, Y. and Crouch, S.R., Air-segmented flow injection: a hybrid technique for automated, low dispersion determinations, 303 (1995) 231

Hsieh, Y. and Crouch, S.R., Flow reversal and flow recycle airsegmented flow injection for simultaneous determination of a binary mixture, 304 (1995) 333

Hsieh, Y.-S. and Crouch, S.R., Corrigendum to "Two-rate method for simultaneous determination of /-amino acid mixtures", 302 (1995) 132

Hsieh, Y.-S. and Crouch, S.R., Determination of enzyme substrates with an extended range of linearity, 309 (1995) 251

Hsieh, Y.-Z. and Chang, A.-C., Effects of analyte-matrix interactions on supercritical fluid extraction efficiencies of polycyclic aromatic hydrocarbons, 342 (1997) 41

Hsieh, Y.-Z., see Huang, H.-Y., 351 (1997) 49

Hsueh, C., Bravo, R., Jaramillo, A.J. and Brajter-Toth, A., Surface and kinetic enhancement of selectivity and sensitivity in analysis with fast scan voltammetry at scan rates above 1000 V/s, 349 (1997) 67

Hsueh, C.C., Liu, Y., Henry, M. and Freund, M.S., Chemically diverse modified electrodes: A new approach to the design and implementation of sensor arrays, 397 (1999) 135

Hu, C.C., see Liu, C.Y., 384 (1999) 51

Hu, J., see Miao, H., 358 (1998) 297

Hu, Q., see Zhao, S., 391 (1999) 365

Hu, R., see Hrijac, J.A., 350 (1997) 221

Hu, S., see Zhao, Y.D., 388 (1999) 93

Hu, T., see Tandler, P.J., 312 (1995) 231

Hu, W., Hasebe, K., Reynolds, D.M. and Haraguchi, H., Separation of nucleosides and their bases by reversed-phase liquid chromatography using pure water as the mobile phase, 353 (1997) 143

Hu, X., see Zhao, T., 358 (1998) 263

Hu, X.L., see Huang, C.Z., 395 (1999) 187

Hu, Y., Vanhaecke, F., Moens, L. and Dams, R., Semi-quantitative panoramic analysis of industrial samples by inductively coupled plasma mass spectrometry, 355 (1997) 105

Hu, Y., Vanhaecke, F., Moens, L., Dams, R., del Castilho, P. and Japenga, J., Determination of the aqua regia soluble content of rare earth elements in fertilizer, animal fodder phosphate and manure samples using inductively coupled plasma mass spectrometry, 373 (1998) 95

Hu, Z., see Wu, X., 374 (1998) 61

Hu, Z., see Zhao, Y., 388 (1999) 45

Hu, Z., Seliskar, C.J. and Heineman, W.R., PAN-incorporated Nafion-modified spectroscopic graphite electrodes for voltammetric stripping determination of lead, 369 (1998) 93

Hua, C., see Caixia, H., 351 (1997) 241

Hua, L., Lu, X. and Qiang, S., Structure-property relationship between half-wave potentials of organic compounds and their topology, 316 (1995) 39 Hua, L., Lu, X., Yiqiu, Y. and Qiang, S., Quantitative structureproperty relationships for colour reagents and their colour reactions with ytterbium using regression analysis and computational neural networks, 321 (1996) 97

Hua, L., see Xu, D.-K., 349 (1997) 215

Huaigong, W., see Hui, W., 329 (1996) 161

Huai-Na, L. and Yun-Xiang, C., A new rapid fluorimetric method for the determination of carbonic anhydrase, 317 (1995) 353

Huan, H.-J., see Chen, M.-C., 341 (1997) 83

Huang, B., see Zhang, Y., 363 (1998) 157

Huang, C.-c., see Hara, H., 338 (1997) 141

Huang, C.P., see Yujun, Y., 341 (1997) 73

Huang, C.Z., Li, Y.F., Hu, X.L. and Li, N.B., Three-dimensional spectra of the long-range assembly of Nile Blue sulfate on the molecular surface of DNA and determination of DNA by lightscattering, 395 (1999) 187

Huang, F., see Yang, J., 363 (1998) 105

Huang, H. and Dasgupta, P.K., A field-deployable instrument for the measurement and speciation of arsenic in potable water, 380 (1999) 27

Huang, H.J., see Shih, Y.T., 392 (1999) 143

Huang, H.-Y. and Hsieh, Y.-Z., Determination of puerarin, daidzein, paeoniflorin, cinnamic acid, glycyrrhizin, ephedrine, and [6]gingerol in Ge-gen-tang by micellar electrokinetic chromatography, 351 (1997) 49

Huang, J., see Korzeniewski, C., 397 (1999) 53

Huang, J., see Zhang, C., 374 (1998) 105

Huang, J., see Zhu, Q.Z., 375 (1998) 177

Huang, S.-D., Cheng, C.-P. and Sung, Y.-H., Determination of benzene derivatives in water by solid-phase microextraction, 343 (1997) 101

Huang, S.D., see Su, P.G., 376 (1998) 305

Huang, S.D., see Wu, Y.C., 373 (1998) 197

Huang, W., Henderson, T.L.E., Bond, A.M. and Oldham, K.B., Curve fitting to resolve overlapping voltammetric peaks: model and examples, 304 (1995) 1

Huang, X., see Zhu, M., 357 (1997) 261

Huang, X.-M., see Min, Z., 349 (1997) 165

Huang, Y., Zhang, C., Zhang, X. and Zhang, Z., Chemiluminescence of sulfite based on auto-oxidation sensitized by rhodamine 6G, 391 (1999) 95

Huang, Y.W., see Lin, S.X., 383 (1999) 101

Huang, Y.-X., see Ming, S., 338 (1997) 103

Huangxian, J. and Leech, D., [Os(bpy)<sub>2</sub>(PVI)<sub>10</sub>Cl]Cl polymer-modified carbon fiber electrodes for the electrocatalytic oxidation of NADH, 345 (1997) 51

Huangxian, J., Hongbin, S. and Hongyuan, C., Properties of poly-βaminoanthraquinone modified carbon fiber electrode as a basis for hemoglobin biosensors, 327 (1996) 125

Huang-Xian, J., see Chen-Xin, C., 310 (1995) 145

Huang-xian, J., see Dong-mei, Z., 329 (1996) 41

Huber, C., Werner, T., Krause, C., Klimant, I. and Wolfbeis, O.S., Energy transfer-based lifetime sensing of chloride using a luminescent transition metal complex, 364 (1998) 143

Huber, C., Werner, T., Krause, C., Wolfbeis, O.S. and Leiner, M.J., Overcoming the pH dependency of optical sensors: a pH-independent chloride sensor based on co-extraction, 398 (1999) 137 Huber, C.O., see Ekkad, N., 332 (1996) 155

Huber, J., see Schuhmann, W., 315 (1995) 113

Huber, W., Bubendorf, A., Grieder, A. and Obrecht, D., Monitoring solid phase synthesis by infrared spectroscopic techniques, 393 (1999) 213

Hubert, P., Chiap, P., Crommen, J., Boulanger, B., Chapuzet, E., Mercier, N., Bervoas-Martin, S., Chevalier, P., Grandjean, D., Lagorce, P., Lallier, M., Laparra,

Hubert, P., see Chiap, P., 391 (1999) 227

Hueber, D.M. and Winefordner, J.D., A flowing electrolytic hydride generator for continuous sample introduction in atomic spectrometry, 316 (1995) 129

Hueber, D.M., see Campiglia, A.D., 346 (1997) 361

Hueber, D.M., see Campiglia, A.D., 351 (1997) 229

Hueih-Jen, Y., Shiuh-Jen, J., Yuh-Jen, Y. and Chorng-jev, H., Speciation of tin by reversed phase liquid chromatography with inductively coupled plasma mass spectrometric detection, 312 (1995) 141

Huff, T. and Hannappel, E., Oxidation and reduction of thymosin β<sub>4</sub> and its influence on the interaction with G-actin studied by reverse-phase HPLC and post-column derivatization with fluorescamine, 352 (1997) 249

Huff, T., Müller, C. and Hannappel, E., HPLC and post-column derivatization with fluorescamine: isolation of actin-sequestering β-thymosins by reversed-phase HPLC, 352 (1997) 239

Hug, P., see Keller, B.A., 393 (1999) 201

Hughes, D., see Barisci, J.N., 371 (1998) 39

Hughes, K.D., Bittner, D.L. and Olsen, G.A., New fluorescence tools for investigating enzyme activity, 307 (1995) 393

Hughes, S.G., see Wentzell, P.D., 307 (1995) 459

Huhtasaari, A., see Rodushkin, I., 378 (1999) 191

Hui Ding, T., see Wang, H., 359 (1998) 39

Hui, F. and Chen, H.-y., Wavelet analyses of electroanalytical chemistry responses and an adaptive wavelet filter, 346 (1997) 319

Hui, F. and Rosset, R., Isolation of polybutenylsuccinimide-type dispersant from monograde and multigrade lubricating oils by classical liquid-adsorption chromatography on a Florisil column, 314 (1995) 161

Hui, F., Machtalère, G., Xie, J., Kolodziejczyk, H. and Rosset, R., Isolation of polybutenylsuccinimide-type dispersants from multigrade lubricating oils by classical cation exchange chromatography, 339 (1997) 109

Hui, F., see Sassiat, P., 306 (1995) 73

Hui, L., see Zheng-Qi, Z., 333 (1996) 119

Hui, W. and Huaigong, W., Studies of the influence of the surfactant sodium dodecyl sulfate on the fluorescence properties of kinetin, 329 (1996) 161

Huichang, M., see Jinxin, L., 310 (1995) 329

Huie, C.W., see Mei, L., 339 (1997) 131

Huifang, W., see Fuyu, G., 342 (1997) 133

Hui-Gai, L., see Zhong, C., 335 (1996) 117

Huiling, D., see Jiansheng, H., 311 (1995) 115 Hui-Min, M., Yue-Xian, H. and Shu-Chuan, L., A new

Hui-Min, M., Yue-Xian, H. and Shu-Chuan, L., A new polymeric chromogenic reagent for the determination of copper(II), 334 (1996) 213

Hui-Qun, F., see Dong-mei, Z., 329 (1996) 41

Huisman, T.H.J., High performance liquid chromatographic analysis of human hemoglobins and their polypeptide chains: its use in the identification of variants, 352 (1997) 187

Huiying, W., see Wenrui, J., 347 (1997) 269

Hulanicki, A., see Bulska, E., 357 (1997) 133

Hulanicki, A., see Garboś, S., 342 (1997) 167

Hulanicki, A., see Godlewska-Źyłkiewicz, B., 358 (1998) 185

Hull, R.D., see Mastin, J.P., 376 (1998) 119

Hüller, J., see Möller, D., 306 (1995) 1

Hüller, J., see Pham, M.T., 320 (1996) 289

Hulsman, M., Bos, M. and van der Linden, W.E., Automated injection of slurry samples in flow-injection analysis, 324 (1996) 13

Hulsman, M., Bos, M. and van der Linden, W.E., Dispersion behaviour of solid particles in flow-injection analysis, 346 (1997) 351

Hummel, W., see Glaus, M.A., 303 (1995) 321

Hun-Chang, S. and Jeng-Shong, S., Organic ammonium ion selective electrodes based on 18-crown-6-phosphotungstic acid precipitates, 324 (1996) 125

Hunt, A.L. and Alder, J.F., Fluorescein mercury(II) acetate and sodium fluorescein as reagents for the determination of bis(2chloroethyl)sulfide by fluorescence quenching, 387 (1999) 207

Hunter, D., see Lundebye, A.-K., 311 (1995) 109

Hurst, J.A., Determination of soluble chromium(VI) in chromium plating mist by X-ray spectrometry, 334 (1996) 331

Hurst, V.J., Schroeder, P.A. and Styron, R.W., Accurate quantification of quartz and other phases by powder X-ray diffractometry, 337 (1997) 233

Hurtubise, R.J., Solid-matrix luminescence analysis: photophysics, physicochemical interactions and applications, 351 (1997) 1

Hurtubise, R.J., see Jiangshan, W., 332 (1996) 299

Hurtubise, R.J., see Jie, C., 324 (1996) 61

Hussonnois, M., see Trubert, D., 332 (1996) 257

Hussonnois, M., see Trubert, D., 374 (1998) 149

Hutchinson, S., see McSweeney, C.C., 346 (1997) 93

Huth-Fehre, T., see Wienke, D., 317 (1995) 1

Hutter, W., Peter, J., Swoboda, H., Hampel, W., Rosenberg, E., Krämer, D. and Kellner, R., Development of a microbial bioassay for chlorinated and brominated hydrocarbons, 306 (1995) 237

Huvenne, J.P., see Dupuy, N., 335 (1996) 79

Huwei, T. Jinhua, C. Ronghui, W. Xiaoli, S.

Huwei, T., Jinhua, C., Ronghui, W., Xiaoli, S., Lihua, N. and Shouzhuo, Y., Fast Fourier transform admittance analysis method applied to thickness-shear-mode acoustic wave sensors, 353 (1997) 29

Hüwel, S., see Conrath, N., 309 (1995) 47

Huwig, A., see Burfeind, J., 322 (1996) 131

Hydes, D.J., see Finch, M.S., 377 (1998) 167

Hye, K.K., see Uk, S.H., 315 (1995) 303

Hyppänen, I., see Kulmala, S., 359 (1998) 71

Hyun, C.Y. and Hak-Sung, K., Electrochemical characteristics of a carbon-based thick-film L-lactate biosensor using L-lactate dehydrogenase, 336 (1996) 57

Hyun, J.H., Lim, H.B. and Lim, C.H., Application of slurry sample introduction to a low-power inductively coupled plasma atomic emission spectrometer incorporating a mini-torch, 342 (1997) 83

Hywel Evans, E., see Louise Armstrong, H.E., 390 (1999) 245

I

Ianni, C., see Baffi, F., 360 (1998) 27

Ianni, C., see Magi, E., 359 (1998) 237

Ianni, M.C., see Baffi, F., 306 (1995) 149

Ibrahim, M.S., Ahmed, M.E., Temerk, Y.M. and Kawde, A.M., Adsorptive stripping voltammetric behaviour of hypoxanthine, 328 (1996) 47

Icardo, M. Catalá, Torro, I. Gil, Zamora, L. Lahuerta and Calatayud, J. Martínez, Flow spectrophotometric determination of ammonium ion, 398 (1999) 311

Ichiki, N., see Yokoyama, K., 304 (1995) 139

Ide, H., see Asaeda, A., 365 (1998) 35

Ide, H., see Terato, H., 365 (1998) 183

Idei, M., Seprődi, J., Győrffy, E., Hollósy, F., Vadász, Z., Mészáros, G., Teplán, I. and Kéri, G., Micellar electrokinetic chromatography of highly hydrophobic peptides, 372 (1998) 273.

Igarashi, S. and Endo, K., Room temperature phosphorescence of palladium(II)-coproporphyrin III complex in a precipitated nonionic surfactant micelle phase: determination of traces of palladium(II), 320 (1996) 133

Igarashi, S., Aihara, T. and Yotsuyanagi, T., Flow injection spectrophotometric determination of ng ml<sup>-1</sup> levels of cobalt(II) using the photochemical decomposition of a cadmium(II)-water-soluble porphyrin complex, 323 (1996) 63

Igarashi, S., see Kawakami, T., 333 (1996) 175

Igarashi, S., see Kawakami, T., 354 (1997) 159

Igarashi, S., see Takahashi, A., 387 (1999) 71

Iglesias, M., Anticó, E. and Salvadó, V., Recovery of palladium(II) and gold(III) from diluted liquors using the resin duolite GT-73, 381 (1999) 61

Iglesias, M., see Anticó, E., 327 (1996) 267

Ignatov, O.V., Khorkina, N.A., Shchyogolev, S.Y., Khlebtsov, N.G., Rogacheva, S.M. and Bunin, V.D., Electro-optical properties of microbial cells as affected by acrylamide metabolism, 347 (1997) 241

Iguchi, H., see Tokumaru, S., 307 (1995) 97

Ihara, T., see Sueda, S., 365 (1998) 27

Ihara, T., Takata, J. and Takagi, M., Novel method of detecting mismatch on DNA by using photo-induced electron transfer through DNA, 365 (1998) 49

Iimuro, S., see Hirayama, N., 339 (1997) 115

Iinuma, F., see Mawatari, K.-i., 302 (1995) 179

Iinuma, F., see Mawatari, K.i., 363 (1998) 133

Iitaka, K., Tani, Y. and Umezawa, Y., Orthophosphate ion-sensors based on a quartz-crystal microbalance coated with insoluble orthophosphate salts, 338 (1997) 77

Ikai, A., see Xu, X.M., 361 (1998) 1

Ikariyama, Y., see Másson, M., 304 (1995) 353

Ikebukuro, K., see Asai, R., 390 (1999) 237

Ikebukuro, K., see Chee, G.J., 394 (1999) 65

Ikebukuro, K., see Hayashi, K., 329 (1996) 127

Ikebukuro, K., see Ji, H.S., 387 (1999) 39

Ikebukuro, K., see Ji, H.S., 390 (1999) 93

Ikebukuro, K., see Sasaki, S., 363 (1998) 229

Ikebukuro, K., see Yano, K., 357 (1997) 91

Ikebukuro, K., see Yano, K., 363 (1998) 111

Ikebukuro, K., see Yokoyama, K., 304 (1995) 139

Ikebukuro, K., Shimomura, M., Onuma, N., Watanabe, A., Nomura, Y., Nakanishi, K., Arikawa, Y. and Karube, I., A novel biosensor system for cyanide based on a chemiluminescence reaction, 329 (1996) 111

Ikebururo, K., see Yano, K., 340 (1997) 41

Ikeda, K. and Abe, S., Liquid-liquid extraction of cationic metal complexes with p-nonylphenol solvent: Application to crown and thiacrown ether complexes of lead (II) and copper (II), 363 (1998) 165

Ikeda, S., Morino, H., Motonaka, J. and Mishima, Y., Jon chromatograph with immobilized alkaline phosphatase reactor for the determination of adenosine phosphates, 384 (1999) 45

Ikeda, S., see Mishima, Y., 345 (1997) 45

Ikeda, S., see Mishima, Y., 358 (1998) 291

Ikeda, S., see Motonaka, J., 368 (1998) 91 Ikeda, S., see Motonaka, J., 369 (1998) 87

ikeda, S., see Motonaka, J., 309 (1998) 8

Ikeda, S.i., see Seki, A., 373 (1998) 9

Ikeda, T., see Kinoshita, H., 303 (1995) 301 Ikeda, T., see Tessema, M., 310 (1995) 161

Ikonen, E., see Haapalinna, A., 380 (1999) 317

Ikonen, E., see Manoochehri, F., 380 (1999) 327

Ilangovan, G., see Zen, J.M., 372 (1998) 315

Ilcheva, L., see Rizov, I., 311 (1995) 175

Iles, P.J., see Farrell, J.R., 334 (1996) 133

Iles, P.J., see Farrell, J.R., 334 (1996) 193

Iles, P.J., see Farrell, J.R., 335 (1996) 111

Iliasov, P.V., see Reshetilov, A.N., 347 (1997) 19

Imagawa, T., see Tong, P., 310 (1995) 93 Imai, J., see Sakai, T., 308 (1995) 446

Imai, K., see Prados, P., 344 (1997) 227

Imai, K., see Zhang, X.R., 303 (1995) 137

Imasaka, T., see Hirakawa, Y., 389 (1999) 69

Imasaka, T., see Matsumoto, J., 343 (1997) 129

Imasaka, T., see Noda, H., 302 (1995) 335

Imasaka, T., see Shu-Xiu, Z., 314 (1995) 193

Imasato, H., see Borissevitch, I.E., 343 (1997) 281

Imasato, H., see Tominaga, T.T., 315 (1995) 217

Imato, T., see Hemmi, A., 316 (1995) 323

Imayoshi, N., see Kitamura, K., 304 (1995) 101

Immonen, K.T., see Heikka, R.A., 349 (1997) 287

Ingle, J.D., see Sule, P.A., 326 (1996) 85

Ingman, F., see Albertús, F., 344 (1997) 271

Ingman, F., see Luque-Pérez, E., 387 (1999) 155

Innocent, C., see Coche-Guerente, L., 311 (1995) 23

Inomata, T., see Kubo, H., 389 (1999) 89

Iñon, F.A., see Andrade, F.J., 379 (1999) 99

Inoue, H., Kohashi, K. and Tsuruta, Y., Simultaneous determination of serum and urinary hydroxyproline and proline by liquid chromatography using two fluorescent labeling reagents, 365 (1998) 219

Inoue, K., see Kobayashi, M., 365 (1998) 199

Inoue, K., see Kurosawa, T., 365 (1998) 249

Inoue, K., see Ohto, K., 341 (1997) 275

Inoue, K., see Ohto, K., 387 (1999) 61

Inoue, K., Yoshizuka, K. and Ohto, K., Adsorptive separation of some metal ions by complexing agent types of chemically modified chitosan, 388 (1999) 209

Inoue, M. and Saka, T., Elemental analysis of powders by glow discharge mass spectrometry, 395 (1999) 165

Inoue, M., see Nakano, N., 334 (1996) 221

Inoue, T., Moriguchi, M. and Ogawa, T., Determination of oxacyanine dyes and rhodamine by a second harmonic generation technique using a femtosecond laser, 330 (1996) 117

Inoue, Y., Sakai, T., Kumagai, H. and Hanaoka, Y., High selective determination of bromate in ozonized water by using ion chromatography with postcolumn derivatization equipped with reagent preparation device, 346 (1997) 299

Interewicz, E., see Wierzchowski, J., 319 (1996) 209

Inukai, Y., Chinen, T., Matsuda, T., Kaida, Y. and Yasuda, S., Selective separation of germanium(IV) by 2,3-dihydroxypropyl chitosan resin, 371 (1998) 187

Inukai, Y., Kaida, Y. and Yasuda, S., Selective adsorbents for germanium(IV) derived from chitosan, 343 (1997) 275

Inzelt, G., see Brett, C.M., 385 (1999) 119

Ioannou, P.C., see Drakopoulos, A.I., 354 (1997) 197

Ioannou, P.C., see Lianidou, E.S., 320 (1996) 107

Ioannou, P.C., see Veiopoulou, C.J., 335 (1996) 177

Irgolic, K.J., see Krachler, M., 363 (1998) 1

Irgum, K., see Emteborg (b. Stigbrand), M., 357 (1997) 111

Irgum, K., see Jonsson, T., 361 (1998) 205

Irgum, K., see Jonsson, T., 400 (1999) 257

Irgum, K., see Pontén, E., 320 (1996) 87

Irons, F., see Przybylko, A.R.M., 311 (1995) 77

Irtel, F., see Ulber, R., 373 (1998) 253

Irvine, G.B., Size-exclusion high-performance liquid chromatography of peptides: a review, 352 (1997) 387

Isberg, I.C. Kristina, see Kok, S.J., 360 (1998) 109

Iseghem, P.V., see Moulin, C., 396 (1999) 253

Ishida, J., Horike, N. and Yamaguchi, M., 6-Isothiocyanatobenzo [g]phthalazine-1,4(2H,3H)-dione as a highly sensitive chemiluminescence derivatization reagent for amines in liquid chromatography, 302 (1995) 61

Ishida, J., see Nohta, H., 344 (1997) 233

Ishida, J., Takada, M., Hara, S., Sasamoto, K., Kina, K. and Yamaguchi, M., Development of a novel chemiluminescent probe, 4-(5',6'-dimethoxybenzothiazolyl) phthalhydrazide, 309 (1995) 211

Ishida, J., Yakabe, T., Nohta, H. and Yamaguchi, M., 6-Amino-methylphthalhydrazide as a highly sensitive chemiluminescence derivatization reagent for 5-hydroxyindoles in liquid chromatography, 346 (1997) 175

Ishida, J., Yoshitake, T., Fujino, K., Kawano, K., Kehr, J. and Yamaguchi, M., Serotonin monitoring in microdialysate from rat brain by microbore-liquid chromatography with fluorescence detection, 365 (1998) 227

Ishida, Y., see Nakanishi, K., 325 (1996) 73

Ishii, A., see Kumazawa, T., 387 (1999) 53

Ishii, T., see Ukeda, H., 308 (1995) 261

Ishii, T., see Watanabe, T., 341 (1997) 257

Ishikawa, T., see Lee, K.H., 386 (1999) 211

Ishikawa, T., see Lee, K.H., 398 (1999) 161

Ishikawa, T., see Uchiyama, S., 351 (1997) 259

Ishimori, Y., see Ito, K., 327 (1996) 29

Ishizuka, T., see Nakane, K., 369 (1998) 79

Ismail, G., see Mouvet, C., 311 (1995) 331

Ismail, G., see Mouvet, C., 338 (1997) 109

Issaq, H.J., see Liu, H., 400 (1999) 181

Itagaki, A., see Kiba, N., 354 (1997) 205

Ito, K., Goto, T., Murakami, S., Maeda, M., Shioda, S. and Arimura, A., Bioluminescent enzyme immunoassay for pituitary adenylate cyclase activating polypeptide 38 (PACAP38), 382 (1999) 245

Ito, K., Hashimoto, K. and Ishimori, Y., Quantitative analysis for solid-phase hybridization reaction and binding reaction of DNA binder to hybrids using a quartz crystal microbalance, 327 (1996) 29

Ito, K., Masukawa, F., Mao, Q. and Hirokawa, T., Inductively coupled plasma-atomic emission spectral fitting analysis of rare-earth elements in ion-adsorption type ores, 362 (1998) 241

Ito, K., see Murakami, S., 361 (1998) 19

Ito, N., Matsumoto, T., Fujiwara, H., Matsumoto, Y., Kayashima, S., Arai, T., Kikuchi, M. and Karube, I., Transcutaneous lactate monitoring based on a micro-planar amperometric biosensor, 312 (1995) 323

Ito, S., see Fukushima, M., 322 (1996) 173

Ito, S., see Hemmi, A., 316 (1995) 323

Ito, S., see Miyake, S., 376 (1998) 97

Ito, S., see Watanabe, S., 376 (1998) 93

Ito, Y., see Ma, Y., 352 (1997) 411

Ito, Y., see Samukawa, T., 316 (1995) 83

Itoh, A., see Umemura, T., 349 (1997) 231

Itoh, S.i., Kaneco, S., Ohta, K. and Mizuno, T., Determination of bismuth in environmental samples with Mg–W cell–electrothermal atomic absorption spectrometry, 379 (1999) 169

Iturriaga, H., see Blanco, M., 303 (1995) 309

Iturriaga, H., see Blanco, M., 327 (1996) 145

Iturriaga, H., see Blanco, M., 333 (1996) 147

Iturriaga, H., see Blanco, M., 353 (1997) 351

Iturriaga, H., see Blanco, M., 383 (1999) 291

Iturriaga, H., see Blanco, M., 384 (1999) 207

Iturriaga, H., see Blanco, M., 392 (1999) 237

Iturriaga, H., see Blanco, M., 398 (1999) 83 Iuan Jan, B., see Shan Lin, M., 388 (1999) 111

Ivanchenko, M.I., Kobayashi, H., Kulik, E.A. and Dobrova, N.B., Studies on polymer solutions, gels and grafted layers using the quartz crystal microbalance technique, 314 (1995) 23

Ivanciuc, O., The neural network MolNet prediction of alkane enthalpies, 384 (1999) 271

Ivanov, A.N., see Evtugyn, G.A., 385 (1999) 13

Ivanov, V.M., see Ershova, N.I., 364 (1998) 235

Ivanova, A., see Brainina, K., 330 (1996) 175

Ivanova, A.V., see Brainina, K.Z., 349 (1997) 85

Ivanova, E., Yan, X.P. and Adams, F., Determination of bismuth in cod muscle, lake and river sediment by flow injection on-line sorption preconcentration in a knotted reactor coupled with electrothermal atomic absorption spectrometry, 354 (1997) 7

Ivaska, A., see Bobacka, J., 385 (1999) 195

Ivaska, A., see Damlin, P., 385 (1999) 175

Ivaska, A., see Karhu, J., 380 (1999) 105

Ivaska, A., see Lindfors, T., 355 (1997) 217

Ivaska, A., see Lindfors, T., 385 (1999) 163

Ivaska, A., see Nyman, J., 308 (1995) 286

Ivaska, A., see Pravda, M., 304 (1995) 127

Iveković, D., see Milardović, S., 350 (1997) 91

Ivey, J.P. and Swan, H.B., An automated instrument for the analysis of atmospheric dimethyl sulfide and carbon disulfide, 306 (1995)

Ivkova, T.I., Pantaler, R.P. and Blank, A.B., Photometric determination of boron in potassium dihydrogenphosphate by the reaction of boron-containing macrobicyclic iron(II) nioximate formation,

Ivkova, T.I., see Eksperiandova, L.P., 396 (1999) 317

Ivnitski, D., see Abdel-Hamid, I., 399 (1999) 99

Iwamoto, E., see Ma, D., 390 (1999) 201

Iwamoto, S.i., see Sohrin, Y., 363 (1998) 11

Iwanami, H., see Minamisawa, H., 378 (1999) 279

Iwasaki, M., see Ohto, K., 341 (1997) 275

Iwatsuki, M., see Kawakubo, S., 310 (1995) 501

Iwatsuki, M., see Kawakubo, S., 388 (1999) 35

Iwuoha, E.I., see Adeyoju, O., 305 (1995) 57

Iwuoha, E.I., see Bin, L., 345 (1997) 59

Iwuoha, E.I., see Killard, A.J., 400 (1999) 109

Iwuoha, E.I., see Pravda, M., 304 (1995) 127

Iyer, C.S.P., see Prasada Rao, T., 369 (1998) 69 Izquierdo, A., see Bryce, D.W., 308 (1995) 96

Izquierdo, A., see Bryce, D.W., 324 (1996) 69

Izquierdo, A., see Cosano, J.S., 308 (1995) 187

Izquierdo-Ridorsa, A., see García, J.F., 331 (1996) 33

Izquierdo-Ridorsa, A., see Gargallo, R., 331 (1996) 195

Izquierdo-Ridorsa, A., see Kudrev, A., 363 (1998) 119

Izquierdo-Ridorsa, A., see Toribio, M., 310 (1995) 297

Izquierdo-Ridorsa, A., see Toribio, M., 356 (1997) 41 Izumi, J.i., see Yoshikawa, M., 365 (1998) 59

Izumiyama, F., see Hara, H., 355 (1997) 211

Izumrudov, V.A., see Yazynina, E.V., 399 (1999) 151

Jacob, K., see Heinemann, G., 386 (1999) 145

Jacobs, M.B., see Minunni, M., 325 (1996) 169

Jacobsen, H.S., see Carlsson, K., 354 (1997) 35

Jacquinot, P., see Hodgson, A.W.E., 393 (1999) 43

Jae Shin, S., Yamanaka, H., Endo, H. and Watanabe, E., Development of ornithine biosensor and application to estimation of prawn freshness, 364 (1998) 159

Jae, H.S., see Min, J.C., 315 (1995) 311

Jaeger, L., see Reuther, R., 394 (1999) 259

Jaffé, R., see Furton, K.G., 304 (1995) 203

Jaffé, R., see Yong, C., 334 (1996) 251

Jaffrezic-Renault, N., see Abdelghani, A., 337 (1997) 225

Jaffrezic-Renault, N., see Gorchkov, D.V., 331 (1996) 217

Jaffrezic-Renault, N., see Jdanova, A.S., 321 (1996) 35

Jaffrezic-Renault, N., see Mlika, R., 354 (1997) 283

Jaffrezic-Renault, N., see Netchiporouk, L.I., 303 (1995) 275

Jaffrezic-Renault, N., see Poyard, S., 364 (1998) 165

Jafvert, C.T., see Lyn, D.A., 363 (1998) 171

Jagner, D., see Adeloju, S.B., 338 (1997) 199

Jagner, D., see Adeloju, S.B., 381 (1999) 207

Jagner, D., see Renman, L., 357 (1997) 157

Jagner, D., see Sahlin, E., 333 (1996) 233

Jagner, D., see Sahlin, E., 346 (1997) 157

Jain, A.K., see Gupta, V.K., 355 (1997) 33

Jain, A.K., see Gupta, V.K., 379 (1999) 201

Jakmunee, J., see Grudpan, K., 363 (1998) 199

Jakůbek, J., see Vobecký, M., 386 (1999) 181

Jamin, E., Gonzalez, J., Remaud, G., Naulet, N., Martin, G.G., Weber, D., Rossmann, A. and Schmidt, H.-L., Improved detection of sugar addition to apple juices and concentrates using internal standard 13C IRMS, 347 (1997) 359

Jamis, J., see Bond, A.M., 396 (1999) 203

Janarthanan, C. and Mottola, H.A., Enzymatic determinations with rotating bioreactors: Determination of glutamate in food products, 369 (1998) 147

Janasek, D., see Spohn, U., 303 (1995) 109

Jandus, J., see Sajdok, J., 315 (1995) 109

Jang, D.C., see Won, J.C., 342 (1997) 51

Jang-Wook, L., see Moo-Jeong, S., 313 (1995) 221

Jankowski, J.A., see Shippy, S.A., 307 (1995) 163

Jankowski, K., Determination of small amounts of palladium in wastes from reworking of spent catalysts by microwave induced plasma atomic emission spectrometry, 317 (1995) 365

Jano, I. and Hardcastle, J.E., General equation for determining the dissociation constants of polyprotic acids and bases from additive properties. Part I. Theory, 390 (1999) 261

Jano, I. and Hardcastle, J.E., General equation for determining the dissociation constants of polyprotic acids and bases from additive properties. Part II. Applications, 390 (1999) 267

Janovcová, J., see Chudobová, I., 319 (1996) 103

Jansen, E.H.J.M., Laan, C.A. and de Fluiter, P., Determination of phthalate-induced rat liver cytochrome P-450 IVA1 by a fluorimetric enzymatic assay and by chemiluminescence detection on Western blots, 303 (1995) 99

Janser, G., see Harzdorf, C., 374 (1998) 209

Janssen, F.E.D.O.R., see Dane, A.D., 351 (1997) 359

Japenga, J., see Hu, Y., 373 (1998) 95

Jaramillo, A., see Spurlock, L.D., 336 (1996) 37

Jaramillo, A.J., see Hsueh, C., 349 (1997) 67

Järemo, M., see Björklund, E., 368 (1998) 117

Jaroniec, M., see Y., W.Z., 315 (1995) 77

Jarosz, M., see Oszwałdowski, S., 361 (1998) 177

Jarvis, N.V., see Cukrowski, I., 379 (1999) 217

Jarzak, U., see Ma, H., 362 (1998) 121

Jarzębińska, A., Rowiński, P.v., Zawisza, I., Bilewicz, R., Siegfried, L. and Kaden, T., Modified electrode surfaces for catalytic reduction of carbon dioxide, 396 (1999) 1

Jasinski, M., see Wang, J., 396 (1999) 33

Jaskuła, M., see Sulka, G.D., 394 (1999) 185

Jászay, Z.M., see Tömpe, P., 305 (1995) 295

Jauhiainen, T., Moore, J., Perämäki, P., Derome, J. and Derome, K., Simple procedure for ion chromatographic determination of anions and cations at trace levels in ice core samples, 389 (1999) 21

Jáuregui, O. and Galceran, M.T., Determination of phenols in water by on-line solid-phase disk extraction and liquid chromotography with electrochemical detection, 340 (1997) 191

Jáuregui, O., see Galceran, M.T., 304 (1995) 75

Jaworski, A., Donten, M. and Stojek, Z., Chronoamperometry and pulve voltammetry of uncharged species at microelectrodes in the presence of a very low amount of supporting electrolyte, 305 (1995) 106

Jayaratna, H.G., Bruntlett, C.S. and Kissinger, P.T., Mercury thread electrode in a flow cell. 332 (1996) 165

Jayatilaka, A., Poole, S.K., Poole, C.F. and Chichila, T.M.P., Simultaneous micro steam distillation/solvent extraction for the isolation of semivolatile flavor compounds from cinnamon and their separation by series coupled-column gas chromatography, 302 (1995) 147

Jayawickrama, D.A., see Lin, M., 307 (1995) 449

Jdanova, A.S., Poyard, S., Soldatkin, A.P., Jaffrezic-Renault, N. and Martelet, C., Conductometric urea sensor. Use of additional membranes for the improvement of its analytical characteristics, 321 (1996) 35

Jeannot, R., see Mouvet, C., 311 (1995) 331

Jędral, W., see Bulska, E., 357 (1997) 133

Jee, R.D., see Eustaquio, A., 383 (1999) 283

Jekel, M., see Oleksy-Frenzel, J., 319 (1996) 165

Jelen, F., see Cai, X., 344 (1997) 65

Jelinková, D., see Deyl, Z., 352 (1997) 257

Jelínek, I., see Opekar, F., 390 (1999) 101

Jem-Mau, L. and Jun-Der, L., Determination of <sup>60</sup>Co in environmental water samples by a hydrous magnesium oxide filter, 318 (1996) 391

Jen, J.-F., Wu, M.-H. and Yang, T.C., Simultaneous determination of vanadium(IV) and vanadium(V) as EDTA complexes by capillary zone electrophoresis, 339 (1997) 251

Jeney, J., see Tóth, K., 353 (1997) 1

Jeng, S.-L., see Wang, C.-F., 342 (1997) 239

Jeng, S.L., see Wang, C.F., 368 (1998) 11

Jeng-Shong, S., see Hun-Chang, S., 324 (1996) 125

Jenkins, G.E., see Wang, X.D., 368 (1998) 105

Jenner, W.N., see Wring, S.A., 334 (1996) 225

Jenq-Yann, Y., see Chu-Fang, W., 320 (1996) 207

Jeong, I.L. and Karube, I., A novel microbial sensor for the determination of cyanide, 313 (1995) 69

Jeppsson, H., see Buttler, T., 324 (1996) 103

Jesús Gismera, M., Antonia Mendiola, M., Rodriguez Procopio, J. and Teresa Sevilla, M., Copper potentiometric sensors based on copper complexes containing thiohydrazone and thiosemicarbazone ligands, 385 (1999) 143

Jewsbury, R.A., see Agater, I.B., 356 (1997) 289

Jewsbury, R.A., see Clerc, S.D., 339 (1997) 225

Jha, S.K., see Chen, G., 356 (1997) 149

Ji Dai, R., see Wang, H., 359 (1998) 39

Ji, H.L., Seung, Y.L. and Kang-Jin, K., The relative significance of multiple pathways in peroxyoxalate chemiluminescence reactions, 329 (1996) 117

Ji, H.S., McNiven, S., Ikebukuro, K. and Karube, I., Selective piezoelectric odor sensors using molecularly imprinted polymers, 390 (1999) 93 Ji, H.S., McNiven, S., Yano, K., Ikebukuro, K., Bornscheuer, U.T., Schmid, R.D. and Karube, I., Highly sensitive trilayer piezoelectric odor sensor, 387 (1999) 39

Ji, J. and Rosenzweig, Z., Fiber optic pH/Ca<sup>2+</sup> fluorescence microsensor based on spectral processing of sensing signals, 397 (1999) 93

Jia, M., see Koziel, J., 400 (1999) 153

Jiacong, S., see Changqing, S., 312 (1995) 207

Jiali, W., Jianzhong, Z., Lei, S. and Nianyi, C., Voltammetric and amperometric study of electrochemical activity of boron-doped polycrystalline diamond thin film electrodes, 333 (1996) 125

Jian, C., see Wei, L., 331 (1996) 103

Jian, L., see Chieu, D.T., 314 (1995) 57

Jian, L., see Pasquini, C., 319 (1996) 315

Jian, P.D., see Guo, N.C., 341 (1997) 251

Jiang, D., see You, J., 391 (1999) 43

Jiang, G.B. and Adams, F.C., Evaluation of gas chromatography with a flame photometric detector based on quartz surfaceinduced emission for determining the speciation of inorganic and methylgermanium compounds, 337 (1997) 83

Jiang, J.H., see Chen, Z.P., 381 (1999) 233

Jiang, J.H., see Chu, X., 373 (1998) 29

Jiang, J.H., see Li, Y., 388 (1999) 161

Jiang, J.-H., see Lin, Z., 344 (1997) 29

Jiang, J.-H., see Xia, C., 336 (1996) 185

Jiang, J.H., see Zhang, L., 370 (1998) 65

Jiang, J.H., Wang, J.H., Chu, X. and Yu, R.Q., Clustering data using a modified integer genetic algorithm (IGA), 354 (1997) 263

Jiang, J.-H., Wang, J.-H., Xia, C. and Yu, R.-Q., Neural network learning to non-linear principal component analysis, 336 (1996) 209

Jiang, M., see Wang, J., 360 (1998) 171

Jiang, M., see Wang, J., 375 (1998) 197

Jiang, S.-J., see Chang, C.-C., 353 (1997) 173

Jiang, S.J., see Li, Y.C., 359 (1998) 205

Jiang, S.J., see Li, Y.C., 372 (1998) 365

Jiang, S.J., see Wann, C.C., 357 (1997) 211

Jiang, S.-J., see Yang, K.-L., 307 (1995) 109

Jiang, Y., see Song, W., 394 (1999) 73

Jiang, Y.-Y., see Qu, F., 344 (1997) 97

Jiang, Z., Liu, X., Zhao, M. and Mo, W., Novel photochemical voltammetric method for the determination of traces of iron in tea, 354 (1997) 359

Jiang, Z., see Clerc, S.D., 339 (1997) 225

Jiang, Z.H., see Li, Y.G., 382 (1999) 277

Jiang, Z.T., Li, R., Xi, J.B. and Yi, B.Q., Determination of trace amounts of manganese by β-cyclodextrin polymer solid phase spectrophotometry using 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol, 392 (1999) 247

Jiang, Z.T., see Li, R., 363 (1998) 295

Jianghong, Q., see Yongcheng, L., 316 (1995) 65

Jiangshan, W. and Hurtubise, R.J., Solid-matrix luminescence in glucose and trehalose glasses with heavy-atom salts, 332 (1996) 299

Jianhua, W. and Ronghuan, H., Synergetic catalytic effect of molybdate and tungstate on the hydrogen peroxide-iodide system and its analytical applications, 303 (1995) 241 Jian-Hui, J., see Yu-Long, X., 313 (1995) 185

Jian-Hui, J., see Zhong, C., 335 (1996) 117

Jianjun, L., see Shaoxiang, X., 322 (1996) 187

Jianjun, W., see Haiying, L., 329 (1996) 97

Jianman, L., see Wang, J., 318 (1996) 151

Jiannong, Y., see Fang, Y.-z., 342 (1997) 13

Jiannong, Y., see Shenghui, L., 335 (1996) 239

Jiannong, Y., see Xiaoming, F., 329 (1996) 49

Jianren, W., see Wenrui, J., 342 (1997) 67

Jian-Rong, M., see Yi-Ming, L., 314 (1995) 169

Jiansheng, H., Huiling, D., Dodson, W.S. and Yuzhuo, L., Application of TiO2 sol for UV radiation measurements, 311 (1995) 115

Jiansheng, H., see Yongsheng, C., 318 (1995) 103

Jianwei, L. and Carr, P.W., Characterization of polybutadienecoated zirconia and comparison to conventional bonded phases by use of linear solvation energy relationships, 334 (1996) 239

Jian-Wei, X., Jin-Gou, X. and Guo-Zhen, C., Study on strongly polarized water in AOT reversed micelles by fluorescence probes and analytical application of AOT reversed micelles, 312 (1995) 337

Jian-Wei, X., Jin-Gou, X. and Guo-Zhen, C., Sensitized room temperature phosphorescence of biacetyl in AOT reversed micelles-dodecylammonium α-naphthylacetate as energy donor, 319 (1996) 231

Jian-Xing, F., see Shan-Jun, L., 313 (1995) 89

Jianzhong, L. and Zhujun, Z., A reusable optical sensing layer for picric acid based on the luminescence quenching of the Euthenoyltrifluoroacetone complex, 318 (1996) 175

Jianzhong, Z., see Jiali, W., 333 (1996) 125

Jiaqi, D., see Baohong, L., 341 (1997) 161

Jiaqi, D., see Chenghong, L., 332 (1996) 73

Jiaqi, D., see Haiying, L., 329 (1996) 97

Jiaqi, D., see Yongcheng, L., 316 (1995) 65 Jidian, Z., see Zaizheng, Z., 350 (1997) 365

Jie, C. and Hurtubise, R.J., Infrared study of the interactions of moisture with filter paper and the moisture quenching of solidmatrix room temperature phosphorescence, 324 (1996) 61

Jie, N., Yang, D., Zhang, Q., Yang, J. and Song, Z., Fluorometric determination of periodate with thiamine and its application to the determination of ethylene glycol and glycerol, 359 (1998) 87

Jie, Z. and Xiwen, H., Study of the nature of recognition in molecularly imprinted polymer selective for 2-aminopyridine, 381 (1999) 85

Jie, Z., see Zaizheng, Z., 350 (1997) 365

Jieke, C., see Shaoxiang, X., 322 (1996) 187

Jieke, C., see Xinguo, W., 325 (1996) 105

Jieling, B., see Yongnian, N., 329 (1996) 65 Ji-Hong, W., see Zhong, C., 335 (1996) 117

JiJi, R.D., Cooper, G.A. and Booksh, K.S., Excitation-emission matrix fluorescence based determination of carbamate pesticides and polycyclic aromatic hydrocarbons, 397 (1999) 61

Jilie, K., see Chenghong, L., 332 (1996) 73

Jiménez, A.I., see Garcia, J.M., 317 (1995) 83

Jiménez, A.I., see Hernández, O., 310 (1995) 53

Jiménez, A.I., see Hernández, O., 320 (1996) 177

Jiménez, A.I., see Martín, M.E., 381 (1999) 247

Jiménez, C., Bartrol, J., de Rooij, N.F. and Koudelka-Hep, M., Use of photopolymerizable membranes based on polyacrylamide hydrogels for enzymatic microsensor construction, 351 (1997)

Jiménez, C., see Puig-Lleixà, C., 386 (1999) 13

Jiménez, C., see Puig-Lleixà, C., 389 (1999) 179

Jiménez, C., see Sànchez, J., 382 (1999) 157

Jiménez, F., see García, J.M., 317 (1995) 83

Jiménez, F., see Hernández, O., 310 (1995) 53

Jiménez, F., see Hernández, O., 320 (1996) 177

Jiménez, F., see Martín, M.E., 381 (1999) 247

Jiménez, F.B., see Ezequiel Rollemberg, M.C., 384 (1999) 17

Jimenez, J.C., see Chiu, R.W., 307 (1995) 193

Jiménez, O., Benito, I. and Marina, M.L., Neural networks as a tool for modelling the retention behaviour of dihydropyridines in micellar liquid chromatography, 353 (1997) 367

Jiménez, R.M., see Barroso, M.B., 305 (1995) 332

Jiménez-Carmona, M.M. and de Castro, M.D.L., An approach for monitoring subcritical water extraction kinetics of fluorescent analytes, 342 (1997) 215

Jiménez-Carmona, M.M. and Luque de Castro, M.D., Reversemicelle formation: a strategy for enhancing CO2-supercritical fluid extraction of polar analytes, 358 (1998) 1

Jiménez-Carmona, M.M., Fernández-Pérez, V., Gualda-Bueno, M.J., Cabanás-Espejo, J.M. and Luque de Castro, M.D., Acidified subcritical water extraction of major ash-forming elements from coal, 395 (1999) 113

Jiménez-Prieto, R. and Silva, M., The continuous-addition-ofreagent technique as an effective tool for enhancing kineticbased multicomponent determinations using computational neural networks, 389 (1999) 131

Jiménez-Prieto, R., Silva, M. and Pérez-Bendito, D., Determination of gallic acid by an oscillating chemical reaction using the analyte pulse perturbation technique, 321 (1996) 53

Jiménez-Prieto, R., Silva, M. and Pérez-Bendito, D., Simultaneous determination of gallic acid and resorcinol based on an oscillating chemical reaction by the analyte pulse perturbation technique, 334 (1996) 323

Jimidar, M., Bourguignon, B. and Massart, D.L., Selectivity optimization after prediction of the migration behaviour of anions in capillary ion analysis in the presence of micelles, 310 (1995) 27

Jin, J., see Shi, G., 391 (1999) 307

Jin, J., see Zhang, S., 386 (1999) 21 Jin, J., see Zhang, S., 399 (1999) 213

Jin, L., see Jin, W., 382 (1999) 33

Jin, L., see Shi, G., 386 (1999) 123

Jin, L., see Shi, G., 391 (1999) 307

Jin, L., see Sun, W., 388 (1999) 103

Jin, L., see Xian, Y., 381 (1999) 191 Jin, L.t., see Zhang, S., 386 (1999) 21

Jin, L.t., see Zhang, S., 399 (1999) 213

Jin, Q., see Pack, B.W., 383 (1999) 231

Jin, W. and Liu, K., Determination of ultratrace iron in KH2PO4 by derivative adsorption chronopotentiometry, 347 (1997) 257

Jin, W., Jin, L., Shi, G. and Ye, J., Determination of monoamine transmitters and their metabolites by capillary electrophoresis with electrochemical detection, 382 (1999) 33

Jin, W., see Liu, W., 383 (1999) 299

Jin, W., see Zhao, X., 306 (1995) 225

Jin, W., Zhao, X. and Gao, W., Determination of trace adenine, adenosine and adenosine monophosphate by 2nd-order derivative adsorption chronopotentiometry, 347 (1997) 263

Jin, W.J., see Zhang, H.R., 357 (1997) 119

Jincao, J., see Hengwu, C., 353 (1997) 181

Jinchang, C. and Rutan, S.C., Identification and quantification of overlapped peaks in liquid chromatography with UV diode array detection using an adaptive Kalman filter, 335 (1996) 1

Jin-chang, Z., see Shun-an, C., 331 (1996) 257

Jingfu, L., Flow injection determination of anionic surfactants based on the solvatochromism of p-diphenylaminoazobenzene sulfonate, 343 (1997) 33

Jinghe, Y., Guangjun, Z., Nianqin, J., Rongjiang, H., Cunguo, L. and Jingtian, H., Simultaneous determination of cephalexin and cefadroxil by using the coupling technique of synchronous fluorimetry and H-point standard additions method, 325 (1996) 195

Jing-Jau, T. and Love, L.J.C., Formation constants of polynuclear aromatic compounds and β-cyclodextrin inclusion complexes in β-cyclodextrin modified mobile phase high performance liquid chromatography system, 344 (1997) 137

Jingou, see Lu, J., 349 (1997) 17

Jin-Gou, X., see Jian-Wei, X., 312 (1995) 337

Jin-Gou, X., see Jian-Wei, X., 319 (1996) 231

Jingtian, H., see Jinghe, Y., 325 (1996) 195

Jingzhong, Z., see Yimin, Z., 353 (1997) 45Jinhua, C., see Huwei, T., 353 (1997) 29

Jinhui, S. and Kui, J., Adsorptive complex catalytic polarographic determination of germanium in soils and vegetables, 309 (1995)

Jin-Ming, L. and Hobo, T., Flow-injection analysis with chemiluminescent detection of sulphite using Na<sub>2</sub>CO<sub>3</sub>-NaHCO<sub>3</sub>-Cu<sup>2+</sup> system, 323 (1996) 69

Jinxin, L., Guojun, L., Huichang, M. and Korenaga, T., Effect of chemical diffusivity on the peak shapes in flow injection analysis with sample or reagent injection, 310 (1995) 329

Jinyuan, M., see Xiaoyong, Z., 340 (1997) 115

Jinyuan, M., see Yongde, Z., 353 (1997) 71

Jiubai, X., see Changqing, S., 309 (1995) 89

Jøns, O., see Gammelgaard, B., 354 (1997) 107

Joa, J.F., see Farrell, S., 313 (1995) 121

Jobst, G., see Dempsey, E., 346 (1997) 341

Johansson, G., see Armalis, S., 339 (1997) 155

Johansson, G., see Bjarnason, B., 347 (1997) 111

Johansson, G., see Bjarnason, B., 372 (1998) 341

Johansson, G., see Corbisier, P., 387 (1999) 235

Johansson, G., see Djane, N.-K., 316 (1995) 305

Johansson, G., see Malcus, F., 327 (1996) 295Johansson, G., see Tang, X.J., 374 (1998) 185

Johansson, P., see Biarnason, B., 372 (1998) 341

Johll, M., Bowlin, D. and Davis, J.M., Verification of the extended statistical model of overlap: application to gas chromatograms containing variable peak densities, 302 (1995) 133

John, R., see Killard, A.J., 400 (1999) 109

Johnson, D.C., see Dobberpuhl, D.A., 322 (1996) 55

Johnson, D.C., see Hoekstra, J.C., 390 (1999) 45

Johnson, D.C., see Johnson, S.K., 341 (1997) 205

Johnson, D.C., see Johnson, S.K., 389 (1999) 1

Johnson, D.K., A fluorescence polarization immunoassay for cadmium(II), 399 (1999) 161

Johnson, J.C., see Chuang, J.C., 376 (1998) 67

Johnson, J.E., Evaluation of a seawater equilibrator for shipboard analysis of dissolved oceanic trace gases, 395 (1999) 119

Johnson, K.S., see Colbert, D., 377 (1998) 255

Johnson, K.S., see Zamzow, H., 377 (1998) 133

Johnson, N.L., see Burns, D.M., 380 (1999) 211

Johnson, P., see Koziet, J., 302 (1995) 29

Johnson, R.C., Koch, K. and Graham Cooks, R., Affinity liquid membrane introduction mass spectrometry, 395 (1999) 239

Johnson, R.C., see Srinivasan, N., 350 (1997) 257

Johnson, S.K., Houk, L.L., Feng, J., Johnson, D.C. and Houk, R.S., Determination of small carboxylic acids by ion exclusion chromatography with electrospray mass spectrometry, 341 (1997) 205

Johnson, S.K., Houk, L.L., Johnson, D.C. and Houk, R.S., Determination of small carboxylic acids by capillary electrophoresis with electrospray-mass spectrometry, 389 (1999) 1

Johnson, T.A., see Cosofret, V.V., 314 (1995) 1

Johnston, M.V., see Mansoori, B.A., 359 (1998) 185

Johnston, M.V., see Mansoori, B.A., 390 (1999) 275

Jokić, A., see Mihajlović, R., 318 (1996) 287

Jönebring, I., see Engström, E., 371 (1998) 227

Jones, A., see Broadhurst, D., 348 (1997) 71

Jones, A., see Goodacre, R., 348 (1997) 511 Jones, A., see Shaw, A.D., 348 (1997) 357

Jones, A., see Winson, M.K., 348 (1997) 273

Jones, G., see Wortberg, M., 304 (1995) 339

Jones, G., see Wortberg, M., 319 (1996) 291

Jones, G., Wortberg, M., Hammock, B.D. and Rocke, D.M., A procedure for the immunoanalysis of samples containing one or more members of a group of cross-reacting analytes, 336 (1996) 175

Jones, G., Wortberg, M., Kreissig, S.B., Hammock, B.D. and Rocke, D.M., Sources of experimental variation in calibration curves for enzyme-linked immunosorbent assay, 313 (1995) 197

Jones, J.A., see Doscotch, M.A., 344 (1997) 55

Jones, J.E., see Kaufman, A.D., 356 (1997) 177

Jones, J.P., see Reddy, S.M., 363 (1998) 203

Jones, M.N., Birkett, J.W., Wilkinson, A.E., Hesketh, N., Livens, F.R., Bryan, N.D., Lead, J.R., Hamilton-Taylor, J. and Tipping, E., Experimental determination of partial specific volumes of humic substances in aqueous solutions, 314 (1995) 149

Jones, M.N., see Birkett, J.W., 362 (1998) 299

Jones, M.N., see Hesketh, N., 327 (1996) 191

Jones, P., see Gerardi, R.D., 388 (1999) 1

Jones, R.D., see Yong, C., 334 (1996) 251

Jönsson, B.R., see Mecklenburg, M., 347 (1997) 79

Jönsson, J.A., see Buttler, T., 324 (1996) 103

Jönsson, J.A., see Wieczorek, P., 337 (1997) 183

Jönsson, J.Å., see Wieczorek, P., 346 (1997) 191

Jonsson, T. and Irgum, K., Very fast peroxyoxalate chemiluminescence, 400 (1999) 257 Jonsson, T., Emteborg (b. Stigbrand), M. and Irgum, K., Heterocyclic compounds as catalysts in the peroxyoxalate chemiluminescence reaction of bis(2,4,6-trichlorophenyl)oxalate, 361 (1998) 205

Joppien, R., see Jürgens, H., 302 (1995) 289

Jordan, J.D., Dunbar, R.A. and Bright, F.V.. Aerosol-generated solgel-derived thin films as biosensing platforms, 332 (1996) 83

Jordan, L.R., see Hodgson, A.W.E., 393 (1999) 43

Josefson, M., see Berntsson, M., 355 (1997) 43

Joseph, W. and Naser, N., Modified carbon-wax composite electrodes. 316 (1995) 253

Joseph, W., Rivas, G., Xiaohua, C., Chicharro, M., Parrado, C., Dontha, N., Begleiter, A., Mowat, M., Palecek, E. and Nielsen, P.E., Detection of point mutation in the p53 gene using a peptide nucleic acid biosensor, 344 (1997) 111

Josic, D., see Linnemayr, K., 372 (1998) 187

Josic, D., see Pock, K., 372 (1998) 219

Jou, J.J., see Zen, J.M., 396 (1999) 39

Jouan, M., see Nguyen Quang, H., 379 (1999) 159

Jouan-Rimbaud, D., Bouveresse, E., Massart, D.L. and de Noord, O.E., Detection of prediction outliers and inliers in multivariate calibration, 388 (1999) 283

Jouan-Rimbaud, D., Khots, M.S., Massart, D.L., Last, I.R. and Prebble, K.A., Calibration line adjustment to facilitate the use of synthetic calibration samples in near-infrared spectrometric analysis of pharmaceutical production samples, 315 (1995) 257

Jouan-Rimbaud, D., Massart, D.L., Saby, C.A. and Puel, C., Characterisation of the representativity of selected sets of samples in multivariate calibration and pattern recognition, 350 (1997) 149

Jouan-Rimbaud, D., see Pasti, L., 364 (1998) 253

Jouan-Rimbaud, D., Walczak, B., Massart, D.L., Last, I.R. and Prebble, K.A., Comparison of multivariate methods based on latent vectors and methods based on wavelength selection for the analysis of near-infrared spectroscopic data, 304 (1995) 285

Jović, V.D., see Zejnilović, R.M., 327 (1996) 107

Joyeux, C., Chrzavzez, E., Boquien, C.Y., Picque, D. and Corrieu, G., Reusable solid phase immunoassay for the detection of citrate lyase, 320 (1996) 77

Jørgensen, A., see Grotha, L., 355 (1997) 75

Jørgensen, S.S. and Sørensen, G., A combined sampling and delay unit for flow injection analysis. The automated determination of 2-thiobarbituric acid reactive substances in foods, 322 (1996) 69

Ju, H.X., see Ni, J.A., 378 (1999) 151

Ju, H.X., see Xiao, Y., 391 (1999) 73

Ju, H.-X., see Xiao, Y., 391 (1999) 299

Juan, L., Swee, N.T. and Hailin, G., Silica sol-gel immobilized amperometric biosensor for hydrogen peroxide, 335 (1996) 137

Juárez, M., see de la Fuente, M.A., 309 (1995) 355

Juliano, V.F., see do Lago, C.L., 310 (1995) 281

Jülicher, P., Mussenbrock, E., Renneberg, R. and Cammann, K., Broadening the antibody specificity by hapten design for an enzyme-linked immunoassay as an improved screening method for the determination of nitroaromatic residues in soils, 315 (1995) 279

Jun Yoon, I., Ho Shin, J., Rhee Paeng, I., Nam, H., Sig Cha, G. and Paeng, K.J., Potentiometric behavior of metalloporphyrin-based ion-selective electrodes: Use of silicone rubber matrix for serum chloride analysis, 367 (1998) 175

Jun, X., Lima, J.L.F.C. and Montenegro, M.C.B.S.M., A study of a permanently coated polymeric column for simultaneous separation of inorganic anions and mono-carboxylic acids, 339 (1997) 231

Jun-Der, L., see Jem-Mau, L., 318 (1996) 391

Jung Lee, H., see Poplawski, M.E., 355 (1997) 249

Jung, G., see Leipert, D., 392 (1999) 213

Jung, S.K., see Chang, H.L., 339 (1997) 303

Jungar, C.M., see Pravda, M., 304 (1995) 127Jungbauer, A., see Pock, K., 372 (1998) 219

JungHwan, C., Gemperline, P.J., Aldridge, P.K. and Sekulic, S.S., Effective mass sampled by NIR fiber-optic reflectance probes in blending processes, 348 (1997) 303

JungHwan, C., see Gemperline, P.J., 345 (1997) 155

Jüngst, D., see He, C., 383 (1999) 185

Juo, C.G., S.W., C. and Her, G.R., Mass spectrometric analysis of additives in polymer extracts by desorption chemical ionization and collisional induced dissociation with B/E linked scanning, 311 (1995) 153

Jürgens, H., Akhnoukh, R., Kretzmer, G. and Schügerl, K., Development of enzyme-cartridge flow-injection analysis for industrial process monitoring. Part III. Application for monitoring of recombinant animal cell cultivations, 315 (1995) 153

Jürgens, H., Brandes, L., Joppien, R., Siebold, M., Schubert, J., Wu, X., Kretzmer, G. and Schügerl, K., Development of enzyme cartridge flow-injection analysis for industrial process monitoring. Part II. Application for monitoring of microorganism cultivations, 302 (1995) 289

Juris, A., see Taddia, M., 375 (1998) 285

Jurkiewicz, M., Alegret, S. and Fàbregas, E., Comparison of flow injection analytical biosystems based on open-tube and packedbed enzyme reactors, 370 (1998) 47

Jurkiewicz, M., del Valle, M., Alegret, S. and Martinez-Fabregas, E., Automated analytical biosystem for urea monitoring, 327 (1996) 243

Jurs, P.C., see Clouser, D.L., 321 (1996) 127

Jurs, P.C., see Sutter, J.M., 342 (1997) 113

Jursch, M., see Götze, H.-J., 324 (1996) 155

Juskowiak, B., Application of binaphthyl-based amphiphiles Determination of benzo[a]pyrene by fluorescence energy transfer, 306 (1995) 323

Juskowiak, B., Efficient quenching of the fluorescence of binaphthyl-based amphiphiles by mercury(II) complexes, 320 (1996) 115

Juskowiak, B., see Sueda, S., 365 (1998) 27

Jusys, Z., see Vaškelis, A., 305 (1995) 227

Jyh-Myng, Z. and Mu-Jye, C., Square-wave voltammetric stripping analysis of bismuth(III) at a poly(4-vinylpyridine)/mercury film electrode, 320 (1996) 43

Jyh-Myng, Z. and Yuan-Shih, T., Square-wave voltammetric stripping analysis of lead(II) at a Nafion R/copper-mercury film electrode, 332 (1996) 59

Jyh-Myng, Z., Fu-Shien, H., Nai-Yuen, C., Sen-Yuan, H. and Mu-Jye, C., Effect of model organic compounds on square-wave voltammetric stripping analysis at the Nafion/chelating agent mercury film electrodes, 310 (1995) 407

## K

Ka, W.L., see Su, C., 326 (1996) 127

Kaabi, H., see Maleki, N., 318 (1996) 373

Kaatz, H., see Streffer, K., 362 (1998) 81

Kaczmarczyk, E., see Chmurzyński, L., 336 (1996) 107

Kaczmarczyk, E., see Chmurzyński, L., 338 (1997) 261

Kaczor, M., see Malyszko, J., 376 (1998) 357

Kaden, T., see Jarzębińska, A., 396 (1999) 1

Kadeřábková, M., see Barek, J., 393 (1999) 141

Kaderli, S., see Dyson, R.M., 353 (1997) 381

Kageyama, S., see Motonaka, J., 369 (1998) 87

Kagiyama, N., see Fujita, S., 339 (1997) 289

Kahmann, A., see Götze, H.-J., 324 (1996) 155

Kai, E., see Sasaki, S., 363 (1998) 229

Kai, G., see Dezhong, L., 320 (1996) 245

Kai, M. and Ohkura, Y., Liquid chromatography of peptides treated with fluorogenic reagents and its application to analyses of opioid peptides, their precursors and related enzymes in rat brain, 352 (1997) 103

Kai, M., Kishida, S. and Sakai, K., A chemiluminescence derivatization method for detecting nucleic acids and DNA probes using a trimethoxyphenylglyoxal reagent that recognizes guanine, 381 (1999) 155

Kai, M., see Ohba, Y., 365 (1998) 233

Kaida, Y., see Inukai, Y., 343 (1997) 275

Kaida, Y., see Inukai, Y., 371 (1998) 187

Kajiwara, H., Affinity capillary electrophoresis of proteins and peptides, 383 (1999) 61

Kaláb, T. and Skládal, P., A disposable amperometric immunosensor for 2,4-dichlorophenoxyacetic acid, 304 (1995) 361

Kaláb, T., see Skládal, P., 316 (1995) 73

Kalash, H., see Boguslavsky, L., 311 (1995) 15

Kalcher, K., see Cai, X., 310 (1995) 153

Kalcher, K., see Stadlober, M., 350 (1997) 319

Kalivas, J.H., see Bakken, G.A., 334 (1996) 15

Kalivas, J.H., see Hörchner, U., 311 (1995) 1 Kalivas, J.H., see Xie, Y.-L., 348 (1997) 19

Kalivas, J.H., see Xie, Y.-L., 348 (1997) 29

Kaljurand, M. and Koel, M., Analyzing time varying flow composition using multiple input chromatography, 348 (1997) 203

Kaljurand, M. and Smit, H.C., Monitoring of randomly varying chemical processes by correlation chromatography, 373 (1998) 175

Kaljurand, M., see Dimandia, J.M.D., 371 (1998) 1

Kaljurand, M., see Louwerse, D.J., 346 (1997) 285

Kaljurand, M., Valentin, J.R. and Shao, M., Feedback shift register sequences versus uniformly distributed random sequences for correlation chromatography, 324 (1996) 29

Kalpana, G., see Koshy, V.J., 307 (1995) 55

Kalyanraman, R., see Kumar, S.D., 338 (1997) 135

Kamada, S., see Murakami, S., 361 (1998) 19

Kamaya, M., Kaneko, Y. and Nagashima, K., Simple method for spectrophotometric determination of cationic surfactants without liquid-liquid extraction, 384 (1999) 215 Kamaya, M., Tomizawa, Y. and Nagashima, K., Spectrophotometric method for the determination of an anionic surfactant without liquid-liquid extraction, 362 (1998) 157

Kamei, T., Tsuda, T., Kitagawa, S., Naitoh, K., Koji Nakashima and Ohhashi, T., Physical stimuli and emotional stress-induced sweat secretions in the human palm and forehead. 365 (1998) 319

Kamei, T., Tsuda, T., Mibu, Y., Kitagawa, S., Wada, H., Naitoh, K. and Nakashima, K., Novel instrumentation for determination of ethanol concentrations in human perspiration by gas chromatography and a good interrelationship between ethanol concentrations in sweat and blood, 365 (1998) 259

Kamen, A.A., see Male, K.B., 351 (1997) 159

Kamimura, K., see Hiyama, T., 345 (1997) 131

Kamiura, T., Funasaka, K., Tajima, Y., Kawaraya, T. and Kuroda, K., Pretreatment by yeast for determination of nickel and vanadium in bitumen-in-water emulsion by inductively coupled plasma atomic emission spectrometry, 327 (1996) 61

Kamiya, K., see Matsuda, Y., 365 (1998) 55

Kamiya, S., see Umemura, T., 349 (1997) 231

Kamiya, S., see Umemura, T., 379 (1999) 23

Kamna, M.M., see Weiss, P.S., 307 (1995) 355

Kamo, N., see Kurosawa, S., 337 (1997) 1

Kanan, S., see Fang, F., 373 (1998) 139

Kanatharana, P., see Ratana-ohpas, R., 333 (1996) 115

Kane, M., Nishimura, A. and Nishi, K., Blood group typing by electrophoresis based on isoelectric focusing, 383 (1999) 157

Kaneco, S., see Ahsan, S., 362 (1998) 279

Kaneco, S., see Itoh, S.i., 379 (1999) 169

Kaneko, S., see Katayama, M., 303 (1995) 333

Kaneko, Y., see Kamaya, M., 384 (1999) 215

Kang, C., Deng, L., Hong, Z., Lihua, N. and Shouzhuo, Y., Model of quartz crystal microbe growth sensor and its application to estimation of microbial populations in mineral waters, 329 (1996) 83

Kang, C., see Dezhong, L., 320 (1996) 245

Kang, C., see Yuanjin, X., 325 (1996) 65

Kang, J., see Fan, X., 367 (1998) 81

Kang, S., see Haiying, L., 344 (1997) 187

Kang, S.-O., see Seok, Y.-J., 306 (1995) 351

Kang, T.F., see Chu, X., 373 (1998) 29

Kang, T.F., Shen, G.L. and Yu, R.Q., Voltammetric behaviour of dopamine at nickel phthalocyanine polymer modified electrodes and analytical applications, 354 (1997) 343

Kang, T.F., Shen, G.L. and Yu, R.Q., Voltammetric behaviour of dopamine at nickel phthalocyanine polymer modified electrodes and analytical applications, 356 (1997) 245

Kang-Jin, K., see Ji, H.L., 329 (1996) 117

Kanjuk, N.I., see Starodub, N.F., 385 (1999) 461

Kanne, B., see Eremenko, A.V., 358 (1998) 5

Kannicht, C., see Pock, K., 372 (1998) 219

Kanno, H., see Akama, Y., 309 (1995) 153 Kano, T., see Umeno, D., 365 (1998) 101

Kantimm, T., see Wienke, D., 317 (1995) 1

Kaplan, B., Application of polyacrylamide slab gel electrophoresis to the analysis and small-scale purification of amyloid proteins, 372 (1998) 161

Kaplan, S., see Hanssen, L.M., 380 (1999) 289

Kaplan, S.G. and Hanssen, L.M., Infrared regular reflectance and transmittance instrumentation and standards at NIST, 380 (1999)

Kapoor, V., see Lyn, D.A., 363 (1998) 171

Kappes, T. and Hauser, P.C., Potentiometric detection in capillary electrophoresis with a metallic copper electrode, 354 (1997) 129

Kappes, T., Schnierle, P. and Hauser, P.C., Potentiometric detection of inorganic anions and cations in capillary electrophoresis with coated-wire ion-selective electrodes, 350 (1997) 141

Kappes, T., Schnierle, P. and Hauser, P.C., Field-portable capillary electrophoresis instrument with potentiometric and amperometric detection, 393 (1999) 77

Kaptein, W.A., see Tiessen, R.G., 379 (1999) 327

Kapui, I., see Nagy, G., 305 (1995) 65

Kar, S., see Dasgupta, P.K., 394 (1999) 1

Karagözler, A.E., see Sener, E., 335 (1996) 35

Karamfilov, V.K., Fileman, T.W., Evans, K.M. and Mantoura, R.F.C., Determination of dimethoate and fenitrothion in estuarine samples by C-18 solid-phase extraction and high-resolution gaschromatography with nitrogen-phosphorus detection, 335 (1996)

Karasev, Y., see Elyashberg, M.E., 388 (1999) 353

Karasev, Y.Z., see Elyashberg, M.E., 337 (1997) 265

Karasev, Y.Z., see Elyashberg, M.E., 348 (1997) 443

Karasev, Y.Z., see Elyashberg, M.E., 353 (1997) 105

Karasev, Y.Z., see Gribov, L.A., 316 (1995) 217

Karatani, H. and Kojima, M., Sensitized luminescence induced by nickel electrocatalysis to detect aliphatic hydroxy compounds, 362 (1998) 141

Karatani, H., Kojima, M., Minakuchi, H., Soga, N. and Shizuki, T., Development and characterization of anodically initiated luminescent detection for alcohols and carbohydrates, 337 (1997) 207

Karatani, H., see Okamura, K., 377 (1998) 125

Karayannis, M.I., see Pettas, I.A., 376 (1998) 331

Kärhä, P., see Manoochehri, F., 380 (1999) 327

Karhu, J., Harju, L. and Ivaska, A., Determination of the solubility products of nitrilotriacetic acid, ethylenediaminetetraacetic acid and diethylenetriaminepentaacetic acid, 380 (1999) 105

Karlberg, B., see Arce, L., 390 (1999) 39

Karlberg, B., see Carlsson, K., 354 (1997) 35

Karlberg, B., see Engström, E., 371 (1998) 227

Karlberg, B., see Karlsson, M., 312 (1995) 107

Karlberg, B., see Kuban, P., 337 (1997) 117

Karlberg, B., see Kuban, P., 378 (1999) 55

Karlberg, B., see Pettersson, A.K., 354 (1997) 241

Karlberg, B., see Pettersson, A.K., 378 (1999) 183

Karlberg, B., see Tryzell, R., 308 (1995) 206

Karlberg, B., see Tryzell, R., 343 (1997) 183

Karlberg, B., see Tryzell, R., 364 (1998) 97

Karliček, R., see Solich, P., 308 (1995) 293

Karlsson, L., see Björklund, E., 368 (1998) 117

Karlsson, M., Karlberg, B. and Olsson, R.J.O., Determination of nitrate in municipal waste water by UV spectroscopy, 312 (1995)

Karlström, H., Nilsson, M. and Nordén, B., Using multivariate methods on solid-state 13C NMR data of complex materials, 315 (1995) 1

Karnes, H.T., see Min, G., 342 (1997) 145

Karpas, Z., see Lorber, A., 334 (1996) 295

Karst, U., see Effkemann, S., 363 (1998) 97

Karst, U., see Harms, D., 389 (1999) 233

Karst, U., see Kempter, C., 388 (1999) 181

Karst, U., see Zurek, G., 351 (1997) 247

Karthikeyan, S., see Prasada Rao, T., 369 (1998) 69

Karube, I., see Asai, R., 390 (1999) 237

Karube, I., see Chee, G.J., 379 (1999) 185

Karube, I., see Chee, G.J., 394 (1999) 65

Karube, I., see Hayashi, K., 329 (1996) 127

Karube, I., see Hemmi, A., 316 (1995) 323

Karube, I., see Hikuma, M., 306 (1995) 209

Karube, I., see Ikebukuro, K., 329 (1996) 111

Karube, I., see Ito, N., 312 (1995) 323

Karube, I., see Jeong, I.L., 313 (1995) 69

Karube, I., see Ji, H.S., 387 (1999) 39

Karube, I., see Ji, H.S., 390 (1999) 93

Karube, I., see Lee, K.H., 386 (1999) 211

Karube, I., see Lee, K.H., 398 (1999) 161

Karube, I., see Lee, T.-y., 302 (1995) 81

Karube, I., see Matsui, J., 335 (1996) 71

Karube, I., see McNiven, S., 365 (1998) 69

Karube, I., see Nagata, R., 304 (1995) 157

Karube, I., see Nakanishi, K., 325 (1996) 73

Karube, I., see Sasaki, S., 347 (1997) 275

Karube, I., see Sasaki, S., 363 (1998) 229 Karube, I., see Sasaki, S., 368 (1998) 71

Karube, I., see Seki, A., 373 (1998) 9

Karube, I., see Shimohigoshi, M., 303 (1995) 295

Karube, I., see Suzuki, H., 387 (1999) 103

Karube, I., see Yang, Z., 357 (1997) 41

Karube, I., see Yano, K., 340 (1997) 41

Karube, I., see Yano, K., 357 (1997) 91 Karube, I., see Yano, K., 363 (1998) 111

Karube, I., see Yano, Y., 320 (1996) 269

Karube, I., see Yokoyama, K., 304 (1995) 139

Káš, J., see Chudobová, I., 319 (1996) 103

Káš, J., see Sajdok, J., 315 (1995) 109

Kascheres, C., see do Lago, C.L., 310 (1995) 281

Kasthurikrishnan, N., see Srinivasan, N., 316 (1995) 269

Kasthurikrishnan, N., see Sriniyasan, N., 350 (1997) 257

Katakis, I., see Parellada, J., 362 (1998) 47

Kataoka, H., Kondo, T. and Sumida, A., Gas chromatographic determination of aldehydes in combustion smoke samples, 358 (1998) 269

Katayama, M., Taniguchi, H., Matsuda, Y., Akihama, S., Hara, I., Sato, H., Kaneko, S., Kuroda, Y. and Nozawa, S., Liquid chromatographic determination of cyclosporin A using aryl oxalate chemiluminescence detection, 303 (1995) 333

Katayama, Y., Takahashi, S. and Maeda, M., Design, synthesis and characterization of a novel fluorescent probe for nitric oxide (nitrogen monoxide), 365 (1998) 159

Katekawa, E., Maximiano, F., Rodrigues, L.L., Flávia Delbem, M. and Serrano, S.H., Electrochemical oxidation of NADH at a bare glassy carbon electrode in different supporting electrolytes, 385 (1999) 345

Kateman, G., see Faber, N.M., 304 (1995) 257

Kateman, G., see Faber, N.M., 304 (1995) 273

Kato, A., see Kiba, N., 311 (1995) 71

Kato, M., see McNiven, S., 365 (1998) 69

Katrlik, J., Švorc, J., Rosenberg, M. and Miertuš, S., Whole cell amperometric biosensor based on Aspergillus niger for determination of glucose with enhanced upper linearity limit, 331 (1996) 225.

Katrlík, J., Brandšteter, R., Švorc, J., Rosenberg, M. and Miertuš, S., Mediator type of glucose microbial biosensor based on Aspergillus niger, 356 (1997) 217

Katrlík, J., Pizzariello, A., Mastihuba, V., Švorc, J., Stred'anský, M. and Miertuš, S., Biosensors for L-malate and L-lactate based on solid binding matrix. 379 (1999) 193

Katsu, T. and Hanada, N., Determination of cholinesterase in blood serum using a benzoate-selective membrane electrode made with heptyl-4-trifluoroacetylbenzoate neutral carrier, 321 (1996) 21

Katsu, T. and Hirodo, H., Determination of histamine release from mast cells using a histamine-sensitive membrane electrode, 396 (1999) 189

Katsu, T. and Mori, Y., Determination of free disopyramide in blood serum in situ using a disopyramide-sensitive membrane electrode, 343 (1997) 79

Katsu, T. and Mori, Y., Determination of free disopyramide in blood serum in situ using a disopyramide-sensitive membrane electrode. 353 (1997) 151

Katsu, T., Furuno, K., Yamashita, S. and Gomita, Y., Ion-selective electrode for procainamide determination in blood serum, 312 (1995) 35

Katsu, T., see Watanabe, K., 316 (1995) 371

Katsu, T., Xu, D., Tsuji, K. and Nagamatsu, T., Tris(2-ethylhexyl) phosphate and tricresyl phosphate as new neutral carriers for organic ammonium ion-selective membrane electrodes, 354 (1997) 301

Kattner, G., see de Jong, J.T.M., 377 (1998) 113

Katumoto, Y., see Motonaka, J., 368 (1998) 91

Katz, E., Riklin, A., Heleg-Shabtai, V., Willner, I. and Bückmann, A.F., Glucose oxidase electrodes via reconstitution of the apoenzyme: tailoring of novel glucose biosensors, 385 (1999) 45

Katz, S.A., see Šikovec, M., 330 (1996) 245

Kauffmann, J.M., see Gerlache, M., 349 (1997) 59

Kaufman, A.D., Kissinger, P.T. and Jones, J.E., The use of titanium dioxide as a photo-catalyst to improve the sensitivity of postcolumn photolysis-electrochemical detection for microbore liquid chromatography, 356 (1997) 177

Kaval, N., see Seitz, W. Rudolf, 400 (1999) 55

Kawaguchi, H., see Hiraide, M., 302 (1995) 103

Kawakami, J., Kawase, Y. and Sugimoto, N., In vitro selection of aptamers that recognize a monosaccharide, 365 (1998) 95

Kawakami, J., see Fauzi, H., 365 (1998) 309

Kawakami, K., see Murata, K., 344 (1997) 153

Kawakami, M., Suzuki, N., Sudo, Y., Shishido, T. and Maeda, M., Development of an enzyme-linked immunosorbent assay (ELISA) for antitumor agent MKT 077, 362 (1998) 177

Kawakami, T. and Igarashi, S., Highly sensitive spectrophotometric determination of nitrite ion using 5,10,15,20-tetrakis(4-aminophenyl)porphine for application to natural waters, 333 (1996) 175

Kawakami, T. and Igarashi, S., Asymmetric porphyrin derivative having one reactive site as a highly sensitive spectrophotometric reagent for nitrite, 354 (1997) 159

Kawakubo, S., Hagihara, Y., Honda, Y. and Iwatsuki, M., Speciation of iron in river and tap waters by catalytic spectrophotometry using oxidation of o-phenylenediamine with hydrogen peroxide, 388 (1999) 35

Kawakubo, S., Tsuchiya, Y. and Iwatsuki, M., Extraction with 8quinolinol and mixed anionic additives using ultrasonic irradiation for the catalytic determination of vanadium in freshwaters, 310 (1995) 501

Kawamoto, K., see Miura, M., 373 (1998) 47

Kawamura, Y., see Fukaya, M., 306 (1995) 231

Kawano, K., see Ishida, J., 365 (1998) 227

Kawaraya, T., see Kamiura, T., 327 (1996) 61

Kawasaki, S., Nagaoka, T., Saisho, Y., Morimoto, A. and Umeda, T., Determination of mevalonic acid in human urine by liquid chromatography with precolumn derivatization and fluorescence detection, 365 (1998) 205

Kawase, Y., see Kawakami, J., 365 (1998) 95

Kawashima, T., see Saitoh, K., 376 (1998) 247

Kawashima, T., see Tomiyasu, T., 394 (1999) 55

Kawashima, T., see Watanabe, T., 374 (1998) 303

Kawata, M., see Morimune, K., 376 (1998) 37

Kawde, A.M., see Ibrahim, M.S., 328 (1996) 47

Kaya, K. and Sano, T., Total microcystin determination using erythm-2-methyl-3-(methoxy-d<sub>3</sub>)-4-phenylbutyric acid (MMPBd<sub>3</sub>) as the internal standard, 386 (1999) 107

Kayashima, S., see Ito, N., 312 (1995) 323

Kayasth, S., Raje, N., Asari, T.P.S. and Parthasarathy, R., Trace element profile of semiconductor materials: Gallium and arsenic, 370 (1998) 91

Kayasth, S., see Raje, N., 318 (1996) 211

Kazantseva, Z.I., see Sergeyeva, T.A., 391 (1999) 289

Kazemzadeh, A., see Ensafi, A.A., 382 (1999) 15

Kazue, M.T., see Kiba, N., 378 (1999) 169

Ke, A.L., see Cheng, Z.H., 345 (1997) 235

Ke, A.L., see Chun, Q.M., 333 (1996) 83

Ke, A.L., see Chun, Q.M., 338 (1997) 255

Ke, M.W., see Lee, A.W.M., 322 (1996) 99

Ke, M.W., see Wing, H.C., 351 (1997) 197

Kearsley, S.K., see Tsipouras, A., 316 (1995) 161

Keenan, F., Cooke, C., Cooke, M., Pennock, C. and and the ALSPAC Team, Correlation of the antimony concentration of umbilical cord and infant hair measured by hydride generation-atomic fluorescence spectrometry, 354 (1997) 1

Keenan, F., see Lee, K.M., 395 (1999) 179

Keese, W., see Steinert, J., 327 (1996) 153

Kehr, J., see Ishida, J., 365 (1998) 227

Kell, D.B., see Alsberg, B.K., 348 (1997) 389

Kell, D.B., see Alsberg, B.K., 368 (1998) 29

Kell, D.B., see Broadhurst, D., 348 (1997) 71

Kell, D.B., see Goodacre, R., 313 (1995) 25

Kell, D.B., see Goodacre, R., 348 (1997) 511

Kell, D.B., see Shaw, A.D., 348 (1997) 357

Kell, D.B., see Winson, M.K., 348 (1997) 273

Keller, B.A. and Hug, P., Time-of-flight secondary ion mass spectrometry of industrial materials, 393 (1999) 201

Kellner, R., see Hutter, W., 306 (1995) 237

Kellner, R., see Schindler, R., 366 (1998) 35

Kelly, M., see Chang, L.Y., 368 (1998) 243

Kemperman, G.J., see Wehrens, R., 400 (1999) 413

Kempter, C., Büldt, A. and Karst, U., Workplace monitoring of oximes using 2,4-dinitrophenylhydrazine-coated silica gel cartridges and liquid chromatography, 388 (1999) 181

Kempter, G., see Stöcklein, W.F., 362 (1998) 101

Kenar, A., Gündüz, T. and Kılıc, E., Potentiometric determination of relative basicities of aliphatic amines in pyridine, 324 (1996) 57

Kennedy, R.T., Bioanalytical applications of fast capillary electrophoresis, 400 (1999) 163

Kennedy, R.T., see Lada, M.W., 307 (1995) 217

Kennedy, S., see Lai, E.P., 364 (1998) 63

Keppler, B.K., see Szpunar, J., 387 (1999) 135

Kerber, A., see Benecke, C., 314 (1995) 141

Kéri, G., see Idei, M., 372 (1998) 273

Kerl, W., see Becker, J.S., 387 (1999) 145

Kérouel, R. and Aminot, A., Model compounds for the determination of organic and total phosphorus dissolved in natural waters, 318 (1996) 385

Kérouel, R., see Aminot, A., 351 (1997) 299

Kerrigan, M.J., see Burns, D.T., 322 (1996) 107

Kertesz, V., see Brett, C.M., 385 (1999) 119

Kertscher, U., see Mehlis, B., 352 (1997) 71

Kessler, M.A., Determination of copper at ng ml<sup>-1</sup>-levels based on quenching of the europium chelate luminescence, 364 (1998) 125

Ketola, R.A., Ojala, M., Sorsa, H., Kotiaho, T. and Kostiainen, R.K., Development of a membrane inlet mass spectrometric method for analysis of air samples, 349 (1997) 359

Kettrup, A., see Knopp, D., 399 (1999) 115

Key, G., see Oepkemeier, S., 393 (1999) 103

Khademizadeh, M., see Tamura, A., 365 (1998) 115

Khalaf, H. and Steinert, J., Determination of secondary amines as highly fluorescent formamidines by high-performance liquid chromatography, 334 (1996) 45

Khalaf, H., see Steinert, J., 327 (1996) 153

Khalaf, K.D., see de la Guardia, M., 308 (1995) 462

Khaldeeva, E.I., see Medyantseva, E.P., 347 (1997) 71

Khaled, A., see Koziel, J., 400 (1999) 153

Khaled, M.M., see Abdennabi, A.M.S., 360 (1998) 195

Khan, G.F. and Wernet, W., A highly sensitive amperometric creatinine sensor, 351 (1997) 151

Khanina, R., see Brainina, K., 330 (1996) 175

Kharitonov, A.B., see Petrukhin, O.M., 353 (1997) 11

Kharitonov, A.B., see Petrukhin, O.M., 385 (1999) 125

Kharybin, A.N., see Yaropolov, A.I., 308 (1995) 137

Khaskelis, A.I., see Mark, Jr., H.B., 385 (1999) 281

Khayar, M., see Bessière, J., 305 (1995) 265

Khayyami, M., see Momeni, N., 387 (1999) 21

Khayyami, M., see Tang, X.J., 374 (1998) 185

Khitrova, V.L., see Schwake, A., 393 (1999) 19

Khlebtsov, N.G., see Ignatov, O.V., 347 (1997) 241

Khojasteh, Z., see Tavakkoli, N., 360 (1998) 203

Kholeif, S., see Anderegg, G., 367 (1998) 261

Kholin, Y.V., see Zaitsev, V.N., 379 (1999) 11

Khoo, B.Y., see Lui, J., 329 (1996) 297

Khorkina, N.A., see Ignatov, O.V., 347 (1997) 241

Khosraviani, M., see Blake, D.A., 376 (1998) 13

Khots, M.S., see Jouan-Rimbaud, D., 315 (1995) 257

Khristenko, I.V., see Zaitsev, V.N., 379 (1999) 11

Khurana, U., see Gupta, V.K., 355 (1997) 33

Khurana, U., see Gupta, V.K., 379 (1999) 201

Kiba, N., Itagaki, A., Fukumura, S., Saegusa, K. and Furusawa, M., Highly sensitive flow-injection determination of glucose in plasma using an immobilized pyranose oxidase and a chemiluminometric peroxidase sensor, 354 (1997) 205

Kiba, N., Kato, A. and Furusawa, M., Determination of branchedchain \( \ell \)-amino acids by flow-injection analysis with co-immobilized leucine dehydrogenase/NADH oxidase and chemiluminescence detection, 311 (1995) 71

Kiba, N., Sun, L., Yokose, S., Kazue, M.T. and Suzuki, T.T., Determination of nano-molar levels of formaldehyde in drinking water using flow-injection system with immobilized formaldehyde dehydrogenase after off-line solid-phase extraction, 378 (1999) 169

Kiba, N., Tachibana, M., Tani, K. and Miwa, T., Chemiluminometric branched chain amino acids determination with immobilized enzymes by flow-injection analysis, 375 (1998) 65

Kido, Y., see Matsumoto, M., 346 (1997) 207

Kiechle, P., see Heyden, Y.V., 316 (1995) 15

Kiekens, P., see Westbroek, P., 385 (1999) 423

Kih, S.J., see Chang, H.L., 351 (1997) 57

Kihara, S., see Kitatsuji, Y., 387 (1999) 181

Kihara, S., see Yoshida, Y., 373 (1998) 213

Kihara, S., see Yoshida, Y., 374 (1998) 269

Ki-Jung, P., see Uk, S.H., 315 (1995) 303

Kikuchi, M., see Ito, N., 312 (1995) 323

Kikuchi, Y. and Sakamoto, Y., Fundamental equilibrium analysis on the ion-pair extraction of dibenzo-18-crown-6 complex of alkali metal ions with picrate ion into 1,2-dichloroethane, 370 (1998) 173

Kilg, R. and Smit, H.C., The quality of quantitation in chromatography Part I. Information theoretical considerations, 333 (1996)

Kilg, R. and Smit, H.C., The quality of quantitation in chromatography Part II. Optimizing the quantitative analysis, 333 (1996) 11

Kilic, E., see Abdülkadir Akay, M., 392 (1999) 343

Killard, A.J., Zhang, S., Zhao, H., John, R., Iwuoha, E.I. and Smyth, M.R., Development of an electrochemical flow injection immunoassay (FIIA) for the real-time monitoring of biospecific interactions, 400 (1999) 109

Kim, E.J., Haruyama, T., Yanagida, Y., Kobatake, E. and Aizawa, M., Disposable creatinine sensor based on thick-film hydrogen peroxide electrode system, 394 (1999) 225

Kim, J., Wu, X., Herman, M.R. and Dordick, J.S., Enzymatically generated polyphenols as array-based metal-ion sensors, 370 (1998) 251

Kim, K., see Lee, D.S., 358 (1998) 163

Kim, K.-H., see Hisamoto, H., 342 (1997) 31

Kim, N., see Volotovsky, V., 359 (1998) 143

Kim, N.D., see Raksasataya, M., 332 (1996) 1

Kim, N.D., see Raksasataya, M., 347 (1997) 313

Kim, S.R., see Park, J.K., 390 (1999) 83

Kim, T.H., see Lee, K.S., 380 (1999) 17

Kim, T.H., see Park, J.K., 390 (1999) 83
Kim, Y.H., see Choi, K.J., 386 (1999) 229

Kimata, Y., see Nagaosa, Y., 327 (1996) 203

Kimura, M., see Minami, T., 372 (1998) 241

Kina, K., see Ishida, J., 309 (1995) 211

Kindy, M.S., see Ramanathan, S., 369 (1998) 181

Kinjo, M., Quantitative analysis by the polymerase chain reaction using fluorescence correlation spectroscopy, 365 (1998) 43

Kinoshita, H., Yoshida, D., Miki, K., Usui, T. and Ikeda, T., An amperometric-enzymatic method for assays of inorganic phosphate and adenosine deaminase in serum based on the measurement of uric acid with a dialysis membrane-covered carbon electrode, 303 (1995) 301

Kinoshita, T., see Hanai, T., 332 (1996) 213

Kinoshita, T., see Hanai, T., 378 (1999) 77

Kinoshita, T., see Kubo, H., 309 (1995) 169

Kipton, H., Powell, J. and Fenton, E., Size fractionation of humic substances: Effect on protonation and metal binding properties, 334 (1996) 27

Kirbs, A., see Gründler, P., 305 (1995) 232

Kirkova, A.A., see Neshkova, M.T., 362 (1998) 221

Kirowa-Eisner, E., Brand, M. and Tzur, D., Determination of subnanomolar concentrations of lead by anodic-stripping voltammetry at the silver electrode, 385 (1999) 325

Kirowa-Eisner, E., see Bonfil, Y., 387 (1999) 85

Kirowa-Eisner, E., see Tzur, D., 355 (1997) 85

Kirowa-Eisner, E., see Tzur, D., 392 (1999) 307

Kirowa-Eisner, E., Tzur, D. and Dozortsev, V., New developments in coulometric titrations. Non-isolated counter electrodes, 359 (1998) 115

Kirtikara, K., see Somasundrum, M., 319 (1996) 59

Kirtikara, K., see Surareungchai, W., 380 (1999) 7

Kise, H., see Kobayashi, M., 361 (1998) 285

Kise, H., see Kobayashi, M., 365 (1998) 199

Kishida, S., see Kai, M., 381 (1999) 155

Kissinger, P.T., see Jayaratna, H.G., 332 (1996) 165

Kissinger, P.T., see Kaufman, A.D., 356 (1997) 177

Kissinger, P.T., see Niwa, O., 318 (1996) 167

Kissinger, P.T., see Pfeiffer, D., 351 (1997) 127

Kistner, A., see Guo, T., 320 (1996) 171

Kitade, T., Kitamura, K. and Wada, Y., Determination of p-aminobenzoic acid in the presence of bovine serum albumin by roomtemperature phosphorimetry on a poly(vinyl alcohol) substrate, 367 (1998) 33

Kitagawa, S., see Kamei, T., 365 (1998) 259

Kitagawa, S., see Kamei, T., 365 (1998) 319

Kitagawa, Y., see Fujita, S., 339 (1997) 289

Kitamura, K., Imayoshi, N., Goto, T., Shiro, H., Mano, T. and Nakai, Y., Second derivative spectrophotometric determination of partition coefficients of chlorpromazine and promazine between lecithin bilayer vesicles and water, 304 (1995) 101

Kitamura, K., see Kitade, T., 367 (1998) 33

Kitao, T., see Yoshikawa, M., 365 (1998) 59

Kitatsuji, Y., Aoyagi, H., Yoshida, Z. and Kihara, S., Plutonium(III)ion selective electrode of liquid membrane type using multidentate phosphine oxide ionophore, 387 (1999) 181

Kjær, T., Hauer Larsen, L. and Revsbech, N.P., Sensitivity control of ion-selective biosensors by electrophoretically mediated analyte transport, 391 (1999) 57

Klammer, C., see Dreveny, D., 398 (1999) 183

Kläui, W., see Bukowsky, H., 319 (1996) 271

Kılıç, E., see Kenar, A., 324 (1996) 57

Kılıç, Z., see Acar, O., 382 (1999) 329

Kleiböhmer, W., see Oepkemeier, S., 393 (1999) 103

Kleine, T.O., Heterogeneous humoral immune responses in cerebrospinal fluid arising from inflammatory diseases of the human central nervous system. Detection of oligoclonal immunoglobulin bands after isoelectric focusing, 393 (1999) 83

Kleinjung, F., Bier, F.F., Warsinke, A. and Scheller, F.W., Fibre-optic genosensor for specific determination of femtomolar DNA oligomers, 350 (1997) 51

Klemenc, S., Budič, B. and Zupan, J., Statistical evaluation of data obtained by inductively coupled plasma atomic emission spectrometry (ICP-AES) for archaeological copper ingots, 389 (1999) 141

Klement, R., see Mazúr, M., 333 (1996) 249

Klement, R., see Mazúr, M., 333 (1996) 253

Klimant, I., see Huber, C., 364 (1998) 143

Klimant, I., see Neurauter, G., 382 (1999) 67

Klimant, I., see Preininger, C., 334 (1996) 113

Kline, W., see Schwartz, M., 352 (1997) 299

Klockow, D., see Schmeling, M., 346 (1997) 121

Klopf, G.J., see Ridlen, J.S., 341 (1997) 195

Klotz, A., see Brecht, A., 362 (1998) 69

Kluever, L.G., see van Staden, J.F., 350 (1997) 15

Kluever, L.G., see van Staden, J.F., 369 (1998) 157

Knauth, H.-D., see Gebhart, E., 377 (1998) 263

Knee, P.C., Investigation of the uniformity and ageing of integrating spheres, 380 (1999) 391

Knee, P.C., see Deadman, A.J., 380 (1999) 401

Knopp, D., Application of immunological methods for the determination of environmental pollutants in human biomonitoring. A review, 311 (1995) 383

Knopp, D., Schedl, M., Achatz, S., Kettrup, A. and Niessner, R., Immunochemical test to monitor human exposure to polycyclic aromatic hydrocarbons: urine as sample source, 399 (1999) 115

Knopp, D., see Cichna, M., 339 (1997) 241

Knopp, D., see Székács, A., 399 (1999) 127

Kobatake, E., see Kim, E.J., 394 (1999) 225

Kobatake, E., see Másson, M., 304 (1995) 353

Kobayashi, H., see Ivanchenko, M.I., 314 (1995) 23

Kobayashi, H., see Okawa, Y., 315 (1995) 137

Kobayashi, M., Hamano, T., Akiyama, M., Watanabe, T., Inoue, K., Oh-oka, H., Amesz, J., Yamamura, M. and Kise, H., Lightindependent isomerization of bacteriochlorophyll g to chlorophyll a catalyzed by weak acid in vitro, 365 (1998) 199

Kobayashi, M., see Ogura, K., 384 (1999) 219

Kobayashi, M., Yamamura, M., Akutsu, S., Miyake, J., Hara, M., Akiyama, M. and Kise, H., Successfully controlled isomerization and pheophytinization of bacteriochlorophyll b by weak acid in the dark in vitro, 361 (1998) 285

Kobayashi, N., see Higashi, T., 365 (1998) 151

Kobayashi, T., see Zhang, H., 370 (1998) 29

Kobayashi, T., Ying Wang, H. and Fujii, N., Molecular imprint membranes of polyacrylonitrile copolymers with different acrylic acid segments, 365 (1998) 81

Kobayashi, Y., see Nakano, N., 398 (1999) 305

Koch, K., see Johnson, R.C., 395 (1999) 239

Kocsis, L., see Horváth, E., 370 (1998) 191

Kodama, H. and Sugahara, K., Analyses of iminodipeptides containing C-terminal proline or hydroxyproline in biological samples by liquid chromatography/mass spectrometry, 352 (1997) 141

Kodíček, M., see Chudobová, I., 319 (1996) 103

Koel, M., see Kaljurand, M., 348 (1997) 203

Kogure, M., Mori, H., Ariki, H., Kojima, C. and Yamamoto, H., Determination of sucrose using sucrose phosphorylase in a flowinjection system, 337 (1997) 107

Kogure, T., see Hasebe, Y., 357 (1997) 51

Koh, T. and Sugimoto, T., Extractive spectrophotometric determination of silver(I) at the 10<sup>-7</sup> M level using 1,10-phenanthroline and tetrabromophenolphthalein ethyl ester, 333 (1996) 167

Kohashi, K., Date, Y., Morita, M. and Tsuruta, Y., Fluorescence reaction of bilirubin with zinc ion in dimethyl sulfoxide and its application to assay of total bilirubin in serum, 365 (1998) 177

Kohashi, K., see Inoue, H., 365 (1998) 219

Kohen, F., see De Boever, J., 303 (1995) 143

Köhler, C., see Paeschke, M., 305 (1995) 126

Kohlmann, M., see Louis, D., 345 (1997) 219

Kohno, H., see Omote, J., 307 (1995) 117

Koide, A., see Shikata, Y., 365 (1998) 241

Koide, T., see Yokoi, K., 316 (1995) 363

Koike, Y., see Hisamoto, H., 396 (1999) 131

Koike, Y., see Ohta, K., 329 (1996) 191

Koizumi, A., Morita, T., Murakami, Y., Morita, Y., Sakaguchi, T., Yokoyama, K. and Tamiya, E., Enzyme immunoassay by capillary electrophoresis with laser induced fluorescence detection, 399 (1999) 63

Koji Nakashima, see Kamei, T., 365 (1998) 319

Kojima, C., see Kogure, M., 337 (1997) 107

Kojima, M., see Karatani, H., 337 (1997) 207

Kojima, M., see Karatani, H., 362 (1998) 141

Kojło, A. and Calatayud, J.M., Spectrofluorimetric flow injection determination of adrenaline with an iodine solid-phase reactor, 308 (1995) 334

Kojło, A. and Gorodkiewicz, E., Simultaneous spectrophotometric determination of nitrite and nitrate in a flow-injection system, 302 (1995) 283

Kojo, S., see Tokumaru, S., 307 (1995) 97

Kok, S.J., Bakker, I., Gooijer, C., Brinkman, U.A.Th. and Velthorst, N.H., Fluorescence line-narrowing spectroscopy of analytes deposited on thin-layer chromatography plates, 389 (1999)

Kok, S.J., Isberg, I.C. Kristina, Gooijer, C., Brinkman, U.A. and Velthorst, N.H., Ultraviolet laser-induced fluorescence detection strategies in capillary electrophoresis: determination of naphthalene sulphonates in river water, 360 (1998) 109

Kok, S.J., Posthumus, R., Bakker, I., Gooijer, C., Brinkman, U.A.T. and Velthorst, N.H., Identification of stereoisomeric benzo[a]pyrene tetrols by reversed-phase liquid chromatography coupled semi-on-line to fluorescence line-narrowing spectroscopy, 303 (1995)3

Kok, S.S., see Zhiqiang, G., 343 (1997) 49

Kok, W.T., see Zhu, R., 371 (1998) 269

Kokado, A., Tsuji, A. and Maeda, M., Chemiluminescence assay of alkaline phosphatase using cortisol-21-phosphate as substrate and its application to enzyme immunoassays, 337 (1997) 335

Koken, M.E., see Abdennabi, A.M.S., 360 (1998) 195

Kokkonen, R., see Sillanpää, M., 303 (1995) 187

Kokot, S. and Yang, P., Comparison of thermogravimetric and differential scanning calorimetric results for cellulosic fabrics by chemometrics, 304 (1995) 297

Kokot, S., Pingyu, Y. and Gilbert, C., Prediction of physical properties of fabrics using DRIFT spectroscopy and thermal analysis, 332 (1996) 105

Kokot, S., see Panayiotou, H., 392 (1999) 223

Kokot, S., see Yongnian, N., 316 (1995) 233

Kokusen, H., see Hirayama, N., 339 (1997) 115

Kolář, V., see Fránek, M., 311 (1995) 349

Kolář, V., see Fránek, M., 347 (1997) 163

Kolář, V., see Skládal, P., 399 (1999) 29

Kölchens, S., see Phimphivong, S., 307 (1995) 403

Kolev, S.D., Mathematical modelling of flow-injection systems, 308

Koley, S.D., Chow, C.W., Davey, D.E. and Mulcahy, D.E., Mathematical modelling of potentiometric stripping analysis. Chemical stripping in quiet solutions, 377 (1998) 13

Kolev, S.D., Chow, C.W.K., Davey, D.E. and Mulcahy, D.E., Oscillating flow injection stripping potentiometry, 309 (1995)

Kolev, S.D., Chow, C.W.K., Davey, D.E. and Mulcahy, D.E., Mathematical modelling of potentiometric stripping analysis in mechanically mixed solutions, 329 (1996) 1

Kolev, S.D., see Chow, C.W.K., 330 (1996) 79

Kolev, S.D., see Coo, L.d., 360 (1998) 153

Kolev, S.D., see Coo, L.d., 386 (1999) 137

Kolev, S.D., see Coo, L.d., 392 (1999) 201

Kolev, S.D., see Newcombe, D.T., 395 (1999) 27

Kolev, S.D., see Sulistvarti, H., 357 (1997) 103 Kolev, S.D., see Sulistyarti, H., 390 (1999) 133

Kößlinger, C., see Uttenthaler, E., 362 (1998) 91

Koller, M. and Eckert, H., Derivatization of peptides for their determination by chromatographic methods, 352 (1997) 31

Kolodsick, K. and Ramstad, T., Determination of trace cyanide in 3guanidinopropionic acid by stripping preconcentration/isolation followed by flow-injection analysis with amperometric detection at silver, 313 (1995) 75

Kolodziejczyk, H., see Hui, F., 339 (1997) 109

Kolodziejczyk, H., see Machtalère, G., 322 (1996) 31

Kolodziejczyk, H., see Sassiat, P., 306 (1995) 73

Kolytcheva, N.V., Petrukhin, O.M., Filipjeva, N.V., Spivakov, B.Y. and Myasoedov, B.F., PVC-matrix membrane ion-selective sensors for gold determination in cyanide solutions, 357 (1997) Komatsu, Y., see Tsurubou, S., 394 (1999) 317

Komorsky-Lovrić, Š. and Lovrić, M., Kinetic measurements of a surface confined redox reaction, 305 (1995) 248

Komorsky-Lovrić, S., Gagić, S. and Penovski, R., Voltammetric determination of benzoylecgonine, 389 (1999) 219

Komozin, P.N., see Nagy, V.Y., 339 (1997) 31

Koníček, J., see Vobecký, M., 386 (1999) 181

Koncki, R. and Mascini, M., Screen-printed ruthenium dioxide electrodes for pH measurements, 351 (1997) 143

Koncki, R., Głąb, S., Dziwulska, J., Palchetti, I. and Mascini, M., Disposable strip potentiometric electrodes with solvent-polymeric ion-selective membranes fabricated using screen-printing technology, 385 (1999) 451

Koncki, R., Lenarczuk, T. and Głąb, S., Disposable integrated cuvette test for quantitative determination of vitamin C in pharmaceutical products, 379 (1999) 69

Koncki, R., Leszczyńska, E., Cybulska, A. and Głab, S., Penicillin enzyme biosensors based on pH membrane electrodes, 321 (1996) 27

Koncki, R., see Leszczyńska, E., 368 (1998) 205

Koncki, R., see Wałcerz, I., 315 (1995) 289

Koncki, R., see Wałcerz, I., 369 (1998) 129

Koncki, R., Wałcerz, I., Ruckruh, F. and Głab, S., Bienzymatic potentiometric electrodes for creatine and L-arginine determination, 333 (1996) 215

Kondo, H., Aimoto, M., Ono, A. and Chiba, K., Rapid determination of sulfur in steel by electrolytic dissolution – inductively coupled plasma atomic emission spectrometry, 394 (1999) 293

Kondo, T., see Kataoka, H., 358 (1998) 269

Kong, J., see Chen, X., 382 (1999) 189

Kong, J., see Liu, B., 386 (1999) 31

Kong, J., see Liu, Z., 392 (1999) 135

Kong, J., see Sun, W., 388 (1999) 103

Kongsawasdi, W., see Ratana-ohpas, R., 333 (1996) 115

König, B. and Grätzel, M., A piezoelectric immunosensor for hepatitis viruses, 309 (1995) 19

Kontoyannis, C.G., G. Antimisiaris, S. and Douroumis, D., Simultaneous quantitative determination of diazepam and liposomes using differential pulse polarography, 391 (1999) 83

Koon, C.A., see Yu, L.H., 317 (1995) 223

Koopal, C.G.J., see van Os, P.J.H.J., 335 (1996) 209

Kooyman, R.P.H., see Schipper, E.F., 341 (1997) 171

Kopanica, M. and Novotný, L., Determination of traces of arsenic(III) by anodic stripping voltammetry in solutions, natural waters and biological material, 368 (1998) 211

Kopanica, M., see Krista, J., 386 (1999) 221

Kopinke, F.D., Georgi, A. and Mackenzie, K., Water solubility enhancement of pyrene in the presence of humic substances, by S. Tanaka et al.: comments, 355 (1997) 101

Kordos, P., see Thust, M., 323 (1996) 115

Korenaga, T. and Fusheng, S., Determination of dissolved silica in waters by a flow-based analysis system composed of a laser diode and a thin long flow-through cell, 318 (1996) 195

Korenaga, T., see Jinxin, L., 310 (1995) 329

Korenman, Y.I., see Rajaković, L.V., 318 (1995) 77

Korf, J., see Tiessen, R.G., 379 (1999) 327

Korgová, H., see Labuda, J., 305 (1995) 42

Korn, M., Gouveia, L.F.B.P., de Oliveira, E. and Reis, B.F., Binary search in flow titration employing photometric end-point detection, 313 (1995) 177

Korn, M., see Carvalho, L.R.F., 317 (1995) 171

Korn, M., see Kronka, E.A.M., 334 (1996) 287

Korn, M., see Martelli, P.B., 308 (1995) 397

Korn, M., see Martelli, P.B., 387 (1999) 165 Korn, M., see Teixeira, L.S., 383 (1999) 309

Kornexl, B.E., see Werner, R.A., 319 (1996) 159

Korolczuk, M. and Grabarczyk, M., Voltammetric determination of Cr(VI) in a flow system in the presence of diethylenetriaminepentaacetic acid (DTPA) following its deposition in the metallic state, 387 (1999) 97

Korpela, T., see Kulmala, A., 382 (1999) 233

Korpela, T., see Kulmala, S., 386 (1999) 1

Korpela, T., see Papkovsky, D., 374 (1998) 1

Korpela, T., see Papkovsky, D.B., 310 (1995) 233

Korzeniewski, C. and Huang, J., Screening effects in surface infrared spectra of CO adsorbed on electrodes: application to isothermal desorption measurements, 397 (1999) 53

Korzeniewski, C., see Tarnowski, D.J., 332 (1996) 111

Korzeniewski, K., see Magoński, J., 356 (1997) 93

Kosaka, Y., see Ohkuma, H., 395 (1999) 265

Kościelniak, P., Calibration procedure for flow injection flame atomic absorption spectrometry with interferents as spectrochemical buffers, 367 (1998) 101

Koshy, V.J., Prasad, J.V., Kalpana, G. and Satish, S., Investigations on intermediate acetal formation during polarographic estimation of certain benzaldehyde derivatives, 307 (1995) 55

Kostiainen, R.K., see Ketola, R.A., 349 (1997) 359

Kotiaho, T., Lauritsen, F.R., Degn, H. and Paakkanen, H., Membrane inlet ion mobility spectrometry for on-line measurement of ethanol in beer and in yeast fermentation, 309 (1995) 317 Kotiaho, T., see Ketola, R.A., 349 (1997) 359

Kotouček, M. and Opravilová, M., Voltammetric behaviour of some nitropesticides at the mercury drop electrode, 329 (1996) 73

Kotoucek, M., see Kula, P., 385 (1999) 91

Kotouček, M., Skopalová, J. and Michálková, D., Electroanalytical study of salazosulfapyridine and biseptol components at the mercury electrode, 353 (1997) 61

Koudelka-Hep, M., see Belmont, C., 329 (1996) 203

Koudelka-Hep, M., see Fiaccabrino, G.C., 326 (1996) 155

Koudelka-Hep, M., see Fiaccabrino, G.C., 359 (1998) 263

Koudelka-Hep, M., see Jiménez, C., 351 (1997) 169

Koudelka-Hep, M., see Michel, P.E., 392 (1999) 95 Koutoufides, P., see Pantsar-Kallio, M., 393 (1999) 181

Kovalev, I.A., see Kubrakova, I.V., 334 (1996) 167

Kowalski, B.R., see Booksh, K.S., 348 (1997) 1

Kowalski, B.R., see Faber, K., 337 (1997) 57

Kowalski, S., see Lai, E.P., 364 (1998) 63

Koziel, J., Jia, M., Khaled, A., Noah, J. and Pawliszyn, J., Field air analysis with SPME device, 400 (1999) 153

Koziet, J., Rossmann, A., Martin, G.J. and Johnson, P., Determination of the oxygen-18 and deuterium content of fruit and vegetable juice water An European inter-laboratory comparison study, 302 (1995) 29

Koziet, J., see Guillou, C., 388 (1999) 137

Koziet, J., see Martin, G.J., 321 (1996) 137

Koziet, J., see Rossmann, A., 340 (1997) 21

Kozin, I.S., A. Larsen, O.F., de Voogt, P., Gooijer, C. and Velthorst, N.H., Isomer-specific detection of azaarenes in environmental samples by Shpol'skii luminescence spectroscopy, 354 (1997)

Kozin, I.S., Gooijer, C. and Velthorst, N.H., Shpol'skii spectroscopy as a tool in environmental analysis for amino- and nitro-substituted polycyclic aromatic hydrocarbons: A critical evaluation, 333 (1996) 193

Kozono, S., Yagi, M. and Takashi, R., Determination of ultratrace amounts of boron in high purity alcohols by inductively coupled plasma-mass spectrometry with hydrofluoric acid/potassium fluoride treatment, 368 (1998) 275

Kraak, J.C., see Decnop-Weever, L.G., 337 (1997) 125

Krachler, M., Alimonti, A., Petrucci, F., Irgolic, K.J., Forastiere, F. and Caroli, S., Analytical problems in the determination of platinum-group metals in urine by quadrupole and magnetic sector field inductively coupled plasma mass spectrometry, 363 (1998) 1

Král, R., Sybr, M. and Plzák, Z., Determination of iron in high-purity phosphoryl chloride by electrothermal atomization atomic absorption spectrometry, 304 (1995) 237

Král, V., see Volf, R., 381 (1999) 197

Králová, B., Electrophoretic methods for the isolation and characterization of enzymes, 383 (1999) 109

Krämer, D., see Hutter, W., 306 (1995) 237

Kramer, G.W., see Travis, J.C., 380 (1999) 115

Kramer, J.R., see Smith, D.Scott, 363 (1998) 21

Kramer, K., see Hock, B., 311 (1995) 393

Krämer, P.M., A strategy to validate immunoassay test kits for TNT and PAHs as a field screening method for contaminated sites in Germany, 376 (1998) 3

Krämer, P.M., Baumann, B.A. and Stoks, P.G., Prototype of a newly developed immunochemical detection system for the determination of pesticide residues in water, 347 (1997) 187

Krämer, P.M., Franke, A. and Standfuβ-Gabisch, C., Flow injection immunoaffinity analysis (FIIAA) - A screening technology for atrazine and diuron in water samples, 399 (1999) 89

Kratsis, S., see Bond, A.M., 372 (1998) 307

Kraus, G., see H.M., Y., 312 (1995) 1

Kraus, J., see Bruzzoniti, M.C., 322 (1996) 49

Krause, C., see Huber, C., 364 (1998) 143

Krause, C., see Huber, C., 398 (1999) 137

Krause, E., Rothemund, S., Beyermann, M. and Bienert, M., Monitoring of α-helical secondary structures in peptides by reversedphase HPLC of replacement sets, 352 (1997) 365

Krech, J.H. and Rose-Pehrsson, S.L., Detection of volatile organic compounds in the vapor phase using solvatochromic dye-doped polymers, 341 (1997) 53

Kreft, M., see Zhang, X., 378 (1999) 135

Kreishman, G.P., see Mark, Jr., H.B., 385 (1999) 281

Kreissig, S.B., see Jones, G., 313 (1995) 197

Kreissig, S.B., see Wortberg, M., 304 (1995) 339

Kreissig, S.B., see Wortberg, M., 319 (1996) 291

Krekler, S., see Frenzel, W., 310 (1995) 437

Kremer, B., see van Staden, J.F., 354 (1997) 59

Kretzmer, G., see Burfeind, J., 322 (1996) 131

Kretzmer, G., see Jürgens, H., 302 (1995) 289

Kretzmer, G., see Jürgens, H., 315 (1995) 153

Kretzmer, G., see Rhee, J.I., 374 (1998) 177

Kretzmer, G., see van Putten, A.B., 317 (1995) 247

Kreulen, R., see Musashi, M., 362 (1998) 261

Kreuzer, M.P., O'Sullivan, C.K. and Guilbault, G.G., Alkaline phosphatase as a label for immunoassay using amperometric detection with a variety of substrates and an optimal buffer system, 393 (1999) 95

Krishan Puri, B., see Ali Taher, M., 367 (1998) 55

Krishna, D.M., see Babu, A.R., 306 (1995) 297

Krishna, G.R., Ravindra, H.R., Gopalan, B. and Syamsunder, S., Determination of iron in nuclear grade zirconium oxide by x-ray fluorescence spectrometry using an internal intensity reference,

Krishnamoorthy, T.S., see Kumar, S.D., 338 (1997) 135

Krishnan, M.S., see Srinivasan, N., 316 (1995) 269

Krista, J., Kopanica, M. and Novotný, L., Cathodic stripping voltammetry of thiosulphate at toxic concentrations, 386 (1999)

Kristian Egeberg, P., An iterative method for solving inverse problems arising from dispersion in high pressure size exclusion chromatography, 392 (1999) 183

Kristiansen, K., see Lundebye, A.-K., 311 (1995) 109

Kristóf, J., see Horváth, E., 370 (1998) 191

Kröger, S. and Turner, A.P.F., Solvent-resistant carbon electrodes screen printed onto plastic for use in biosensors, 347 (1997) 9

Kröger, S., see Setford, S.J., 398 (1999) 13

Kröger, S., Setford, S.J. and Turner, A.P., Assessment of glucose oxidase behaviour in alcoholic solutions using disposable electrodes, 368 (1998) 219

Krom, K.R., see Weiss, P.S., 307 (1995) 355

Kronka, E.A., see Vieira, J.A., 366 (1998) 251

Kronka, E.A.M., Reis, B.F., Korn, M. and Bergamin F, H., Multicommutation in flow analysis. Part 5: Binary sampling for sequential spectrophotometric determination of ammonium and phosphate in plant digests, 334 (1996) 287

Kronka, E.A.M., see Martelli, P.B., 308 (1995) 397

Kruchinina, N.Y., see Petrukhin, O.M., 353 (1997) 11

Krug, F.J., see de Azevedo Tumang, C., 374 (1998) 53

Krug, F.J., see Neto, J.A.G., 308 (1995) 439

Krug, F.J., see Silva, M.M., 368 (1998) 255

Kruhak, I., see Milardović, S., 350 (1997) 91

Krull, I.S., see Liu, H., 400 (1999) 181

Krull, U.J., see Brennan, J.D., 336 (1996) 157

Krull, U.J., see Chiang, K.L., 357 (1997) 73

Krull, U.J., see Henke, L., 344 (1997) 201

Krull, U.J., see Piunno, P.A., 400 (1999) 73

Krull, U.J., see Sojka, B., 395 (1999) 273

Kuban, P., Engström, A., Olsson, J.C., Thorsén, G., Tryzell, R. and Karlberg, B., New interface for coupling flow-injection and capillary electrophoresis, 337 (1997) 117

Kuban, P., Pirmohammadi, R. and Karlberg, B., Flow injection analysis-capillary electrophoresis system with hydrodynamic injection, 378 (1999) 55

Kuban, P., see Arce, L., 390 (1999) 39

Kubiak, W.W. and Wang, J., Flow injection analysis as a tool for studying polymer modified electrodes, 329 (1996) 181

Kubista, M., see Elbergali, A., 379 (1999) 143

Kubista, M., Sjöback, R. and Nygren, J., Quantitative spectral analysis of multicomponent equilibria, 302 (1995) 121

Kubo, H. and Toriba, A., Chemiluminescence flow injection analysis of reducing agents based on the luminol reaction, 353 (1997) 345

Kubo, H., Saitoh, M., Murase, S., Inomata, T., Yoshimura, Y. and Nakazawa, H., Chemiluminescence of β-lactam antibiotics based on the luminol reaction, 389 (1999) 89

Kubo, H., Tsujimura, A., Toriba, A. and Kinoshita, T., Ultraviolet detection of peptides by reversed-phase liquid chromatography using an in-line reactor containing copper metal, 309 (1995)

Kubo, I., see Seki, A., 373 (1998) 9

Kubo, I., see Seki, A., 382 (1999) 131

Kubo, K., see Asaeda, A., 365 (1998) 35

Kubo, K., see Minami, T., 372 (1998) 241

Kuboniwa, H., see Nabuchi, Y., 365 (1998) 301

Kubono, K., see Hirayama, N., 339 (1997) 115

Kubota, L.T., see Duarte, M.M.M.B., 350 (1997) 353

Kubota, L.T., see Fernandes, J.C.B., 366 (1998) 11

Kubota, L.T., see Fernandes, J.C.B., 385 (1999) 3

Kubota, L.T., see Garcia, C.A.B., 374 (1998) 201

Kubota, L.T., see Milagres, B.G., 347 (1997) 35

Kubota, L.T., see Rosatto, S.S., 390 (1999) 65

Kubota, L.T., see Rover Jr., L., 366 (1998) 103

Kubota, M., see Toda, E., 333 (1996) 51

Kubota, T. and Okutani, T., Determination of selenium content in natural water by graphite furnace atomic absorption spectrometry after preconcentration with molybdate-form anion exchange resin, 351 (1997) 319

Kubová, J., Hanáková, V., Medveď, J. and Streško, V., Determination of lead and cadmium in human hair by atomic absorption spectrometric procedures after solid phase extraction, 337 (1997) 329

Kubová, J., see Polakovičová, J., 320 (1996) 145

Kubrakova, I.V., Kudinova, T.F., Kuz'min, N.M., Kovalev, I.A., Tsysin, G.I. and Zolotov, Y.A., Determination of low levels of platinum group metals: new solutions, 334 (1996) 167

Kudinova, T.F., see Kubrakova, I.V., 334 (1996) 167

Kudrev, A., Gargallo, R., Izquierdo-Ridorsa, A., Tauler, R. and Casassas, E., Study of the acid-base equilibria and conformational changes of double stranded polyadenylic-polyuridylic acid in aqueous solution, 363 (1998) 119

Kugii, T., see Sohrin, Y., 363 (1998) 11

Kugimiya, A. and Takeuchi, T., Application of indoleacetic acidimprinted polymer to solid phase extraction, 395 (1999)

Kugimiya, A., Matsui, J., Abe, H., Aburatani, M. and Takeuchi, T., Synthesis of castasterone selective polymers prepared by molecular imprinting, 365 (1998) 75

Kui, J., see Jinhui, S., 309 (1995) 103

Kukhtin, A.V., see Eremeev, N.L., 347 (1997) 27

Kukla, A.L., see Starodub, N.F., 385 (1999) 461

Kula, M.R., see Spohn, U., 303 (1995) 109

Kula, P., Navrátilová, Z., Kulová, P. and Kotoucek, M., Sorption and determination of Hg(II) on clay modified carbon paste electrodes, 385 (1999) 91

Kulik, E.A., see Ivanchenko, M.I., 314 (1995) 23

Kulkarni, A.V., see Kumar, S.D., 338 (1997) 135

Kulkarni, M.J., Argekar, A.A., Mathur, J.N. and Page, A.G., Chemical separation and inductively coupled plasma-atomic emission spectrometric determination of seventeen trace metals in thorium oxide matrix using a novel extractant - Cyanex-923, 370 (1998) 163

Kullak-Ublick, G.A., see He, C., 383 (1999) 185

Kullick, T., see Ulber, R., 373 (1998) 253

Kulmala, A., Kulmala, S., Ala-Kleme, T., Hakanen, A. and Korpela, T., Hydrated electron-induced chemiluminescence of thallium(I) ion, 382 (1999) 233

Kulmala, A., see Kulmala, S., 309 (1995) 197

Kulmala, A., see Kulmala, S., 340 (1997) 245

Kulmala, A., see Kulmala, S., 347 (1997) 333

Kulmala, A., see Kulmala, S., 359 (1998) 71

Kulmala, A., see Kulmala, S., 367 (1998) 17

Kulmala, A., see Kulmala, S., 386 (1999) 1

Kulmala, S. and Ala-Kleme, T., Room temperature phosphorescence emission in fully aqueous medium induced by injection of hot electrons into an electrolyte solution, 355 (1997) 1

Kulmala, S., Ala-Kleme, T., Väre, L., Helin, M. and Lehtinen, T., Hot electron-induced electrogenerated luminescence of Tl(I) at disposable oxide-covered aluminum electrodes, 398 (1999) 41

Kulmala, S., Hakanen, A., Raerinne, P., Kulmala, A. and Haapakka, K., Ruthenium(II) tris-(2,2'-bipyridine)-specific extrinsic lyoluminescences of x-ray irradiation colored and electrolytically colored alkali halides, 309 (1995) 197

Kulmala, S., Helin, M., Ala-Kleme, T., Väre, L., Papkovsky, D., Korpela, T. and Kulmala, A., Electrochemiluminescent labels for applications in fully aqueous solutions at oxide-covered aluminium electrodes, 386 (1999) 1

Kulmala, S., Kulmala, A., Ala-Kleme, T. and Pihlaja, J., Primary cathodic steps of electrogenerated chemiluminescence of lanthanide(III) chelates at oxide-covered aluminum electrodes in aqueous solution, 367 (1998) 17

Kulmala, S., Kulmala, A., Ala-Kleme, T., Hakanen, A. and Haapakka, K., Intrinsic and 1-aminonaphthalene-4-sulfonate-specific extrinsic lyoluminescences of X-ray irradiated sodium chloride, 340 (1997) 245

Kulmala, S., Kulmala, A., Helin, M. and Hyppänen, I., Hot electroninduced time-resolved electrogenerated luminescence of Tb(III) ions at stationary oxide-covered aluminium electrodes, 359 (1998)71

Kulmala, S., Kulmala, A., Latva, M. and Haapakka, K., X-ray irradiated sodium chloride as an excitation source for the sensitized terbium(III)-specific chemiluminescence of aromatic Tb(III) chelates in aqueous solutions, 347 (1997) 333

Kulmala, S., see Kulmala, A., 382 (1999) 233

Kulmala, S., see Mãtāchescu, C., 349 (1997) 1

Kulmala, S., see Papkovsky, D., 374 (1998) 1

Kulová, P., see Kula, P., 385 (1999) 91

Kulys, J. and Hansen, H.E., Long-term response of an integrated carbon paste based glucose biosensor, 303 (1995) 285

Kulys, J.J., see Wollenberger, U., 329 (1996) 231

Kumagai, H., see Inoue, Y., 346 (1997) 299

Kumagai, M., see Nomura, T., 343 (1997) 209

Kumakura, M., see Dela Rosa, A.M., 312 (1995) 85

Kumamaru, T., see Fujiwara, T., 349 (1997) 159

Kumamaru, T., see Ma, D., 390 (1999) 201

Kumamaru, T., see Sakai, H., 302 (1995) 173

Kumamaru, T., see Sakai, H., 331 (1996) 239

Kumamaru, T., see Tao, S., 309 (1995) 379

Kumamaru, T., see Tao, S., 310 (1995) 369

Kumar, A., see El Aamrani, F.Z., 382 (1999) 205

Kumar, P., see Gupta, V.K., 379 (1999) 201

Kumar, P., see Gupta, V.K., 389 (1999) 205

Kumar, S.D., Kulkarni, A.V., Kalyanraman, R. and Krishnamoorthy, T.S., Whole blood glucose determination using glucose oxidase immobilized on cotton cheese cloth, 338 (1997) 135

Kumar, S.J., Meeravali, N.N. and Arunachalam, J., Determination of trace impurities in high purity gallium by inductively coupled plasma mass spectrometry and cross validation of results by transverse heated graphite furnace atomic absorption spectrometry, 371 (1998) 305

Kumazawa, T., Seno, H., Lee, X.P., Ishii, A., Watanabe-Suzuki, K., Sato, K. and Suzuki, O., Extraction of methylxanthines from human body fluids by solid-phase microextraction, 387 (1999) 53

Künnecke, W., see Mayer, M., 324 (1996) 37

Künnecke, W., see Mohns, J., 305 (1995) 241

Kunovits, J., see Nagy, G., 319 (1996) 49

Kuo, J.M., see Aldstadt, J.H., 319 (1996) 135

Kurahashi, K., see Fujiwara, T., 349 (1997) 159

Kurihara, M., see Saitoh, K., 376 (1998) 247

Kurochkin, I., see Makower, A., 357 (1997) 13

Kurochkin, I.N., see Papkovsky, D.B., 310 (1995) 233

Kuroda, K., see Kamiura, T., 327 (1996) 61

Kuroda, N., see Al-Dirbashi, O., 365 (1998) 169

Kuroda, N., see Nakashima, K., 303 (1995) 103

Kuroda, T., see Hara, S., 387 (1999) 121

Kuroda, Y., see Katayama, M., 303 (1995) 333

Kuroki, H., see Minamisawa, H., 398 (1999) 289

Kurosawa, S., Tawara-Kondo, E. and Kamo, N., Detection of mutagenic polycyclic compounds using a piezoelectric quartz crystal coated with plasma-polymerized phthalocyanine derivatives, 337 (1997) 1

Kurosawa, T., Sato, M., Inoue, K., Yoshimura, T., Tohma, M., Ling Jiang, L. and Hashimoto, T., Separation of stereoisomers of C<sub>27</sub>bile acid CoA esters by liquid chromatography and its application to the study of the stereospecificities of D- and L-bifunctional proteins in bile acid biosynthesis, 365 (1998) 249

Kurtinaitiene, B., see Laurinavicius, V., 330 (1996) 159

Kuselman, I. and Shenhar, A., Design of experiments for the determination of the detection limit in chemical analysis, 306 (1995) 301

Kuselman, I., Anisimov, B., Turovsky, L. and Shenhar, A., The uncertainty of carbon dioxide determination in gaseous mixtures, 318 (1996) 327

Kuselman, I., see Filanovsky, B., 364 (1998) 181

Kusu, F., see Arai, K., 365 (1998) 279

Kusunose, H., see Ukeda, H., 308 (1995) 261

Kutner, W., see Chen, Q., 306 (1995) 201

Kuttatharmmakul, S., Luc Massart, D. and Smeyers-Verbeke, J., Comparison of alternative measurement methods, 391 (1999) 203

Kutyreva, M.P., see Medyantseva, E.P., 347 (1997) 71

Kuwabara, T., see Wagatsuma, K., 343 (1997) 267

Kuwada, M., see Shikata, Y., 365 (1998) 241

Kuz'min, N.M., see Kubrakova, I.V., 334 (1996) 167

Kużmin, N.M., see Dmitrienko, S.G., 373 (1998) 131

Kvalheim, O.M., see Grande, B.V., 390 (1999) 1

Kvalheim, O.M., see Grung, B., 304 (1995) 57

Kvalheim, O.M., see Grung, B., 316 (1995) 225

Kvalheim, O.M., see Sánchez, F.C., 314 (1995) 131

Kvaineim, O.M., see Sanchez, F.C., 314 (1995) 13

Kvarnström, C., see Damlin, P., 385 (1999) 175
Kwak, E.S., Esquivel, S. and Gomez, F.A., Optimization of capillary electrophoresis conditions for in-capillary enzyme-catalyzed

microreactions, 397 (1999) 183

Kwei-Lan, L. and Shuenn-Jyi, S., Determination of flavonoids and alkaloids in the scute-coptis herb couple by capillary electrophoresis, 313 (1995) 113

Kyröläinen, M., Reddy, S.M. and Vadgama, P.M., Blood compatibility and extended linearity of lactate enzyme electrode using poly(vinyl chloride) outer membranes, 353 (1997) 281

Kyung-Hee, K., see Uk, S.H., 315 (1995) 303

Kyungho, K., Minamitani, H., Hisamoto, H., Suzuki, K. and Shinwon, K., Active optical thin-film waveguide sensor for ion sensing, 343 (1997) 199

## I

La Rosa, C., Pariente, F., Hernández, L. and Lorenzo, E., Amperometric flow-through biosensor for the determination of pesticides. 308 (1995) 129

Laan, C.A., see Jansen, E.H.J.M., 303 (1995) 99

Laassis, B., see Pérez, R., 369 (1998) 197

Labbé, P., see Besombes, J.-L., 311 (1995) 255

Labbé, P., see Besombes, J.-L., 317 (1995) 275

Labbe, P., see Poyard, S., 364 (1998) 165

Labuda, J., Korgová, H. and Vaníčková, M., Theory and application of chemically modified carbon paste electrode to copper speciation determination, 305 (1995) 42

Lacasse, R., see Silva, P.R.M., 385 (1999) 249

Lachica, M., see Campos, E., 369 (1998) 235

Lachowicz, E., Páez-Hernández, M.E. and Valiente, M., Selective up-hill transport of gold to iodide stripping solution through a solvent modified liquid membrane containing a polysulphide podand as carrier, 327 (1996) 175

Lack, B., Duncan, J. and Nyokong, T., Adsorptive cathodic stripping voltammetric determination of gold(III) in the presence of yeast mannan, 385 (1999) 393

Lacorte, S., see Marty, J.L., 311 (1995) 265

LaCourse, W.R. and Owens, G.S., Pulsed electrochemical detection of thiocompounds following microchromatographic separations, 307 (1995) 301 Lada, M.W., Schaller, G., Carriger, M.H., Vickroy, T.W. and Kennedy, R.T., On-line interface between microdialysis and capillary zone electrophoresis, 307 (1995) 217

Ladouceur, M., see Silva, P.R.M., 385 (1999) 249

Lae Rho, K., see Poplawski, M.E., 355 (1997) 249

Lafis, S.I., see Pettas, I.A., 376 (1998) 331

Lafont, H., see He, C., 383 (1999) 185

Lafuente, J., see Gabriel, D., 359 (1998) 173

Laganà, A., Bellagamba, G., D'Ascenzo, G., Gentili, A. and Marino, A., Evaluation of ticlopidine in human serum and plaque by liquid chromatography/atmospheric pressure chemical ionization mass spectrometry, 354 (1997) 87

Laganà, A., Fago, G., Marino, A. and Mosso, M., Soil column extraction followed by liquid chromatography and electrospray ionization mass spectrometry for the efficient determination of aryloxyphenoxypropionic herbicides in soil samples at ng g<sup>-1</sup> levels, 375 (1998) 107

Laganà, A., Marino, A., Fago, G. and Pardo Martinez, B., Determination of free N-acetyl neuraminic acid by ultrafiltration and liquid chromatography in the serum of normal and cancer patients, 306 (1995) 65

Laganà, A., Marino, A., Fago, G., Pardo-Martinez, B. and Bizzarri, M., Sensitive assay for melatonin in human serum by liquid chromatography, 316 (1995) 377

Lagorce, P., see Hubert, P., 391 (1999) 135

Lahuerta Zamora, L., see Fuster Mestre, Y., 394 (1999)

Lai, E.P.C., see Dabek-Zlotorzynska, E., 359 (1998) 1

Lai, E.P., Zhang, W., Trier, X., Georgi, A., Kowalski, S., Kennedy, S., MdMuslim, T. and Dabek-Zlotorzynska, E., Speciation of mercury at ng/ml concentration levels by capillary electrophoresis with amperometric detection, 364 (1998) 63

Laine, E., see Mãtāchescu, C., 349 (1997) 1

Laiwraungrath, S., see Grudpan, K., 314 (1995) 51

Lajunen, L.H.J., see Paama, L., 330 (1996) 259

Lakowicz, J.R., see Qing, C., 350 (1997) 97

Lakshman, S., Mills, R., Feng, F., Patterson, H. and Cronan, C., Use of fluorescence polarization to probe the structure and aluminum complexation of three molecular weight fractions of a soil fulvic acid, 321 (1996) 113

Lallier, M., see Hubert, P., 391 (1999) 135

Lam, M.H., see Poon, K.F., 396 (1999) 303

Lam, P.K., see Poon, K.F., 396 (1999) 303

Lam, S., see Enju, W., 334 (1996) 139

Lamartine, R., see Mlika, R., 354 (1997) 283

Lamb, J.D., Nazarenko, A.Y., Uenishi, J. and Tsukube, H., Silver(I) ion-selective transport across polymer inclusion membranes containing new pyridino- and bipyridino-podands, 373 (1998) 167

Lambert, W.E., see Dams, R., 399 (1999) 185

Lamble, K.J. and Hill, S.J., Arsenic speciation in biological samples by on-line high performance liquid chromatography-microwave digestion-hydride generation-atomic absorption spectrometry, 334 (1996) 261

Lan, B.T.T., see Tóth, K., 353 (1997) 1

Lan, H.L., see Chuang, C.L., 353 (1997) 37

Lancelot, J., see Monna, F., 330 (1996) 107

Land, D.P., Abdelrehim, I.M., Thornburg, N.A. and Sloan, J.T., Laser-induced thermal desorption with Fourier transform mass spectrometry for the time resolved analysis of catalyst and biomedical implant model surface molecular composition, 307 (1995) 321

Landgraf, M.D., da Silva, S.C. and de O. Rezende, M.O., Mechanism of metribuzin herbicide sorption by humic acid samples from peat and vermicompost, 368 (1998) 155

Lane, R., Chow, C.W.K, Davey, D.E., Mulcahy, D.E. and McLeod, S., An integrated microdistillation flow injection system for nitrite measurement, 395 (1999) 225

Lang, G., see Brecht, A., 311 (1995) 289

Lang, H.P., Baller, M.K., Berger, R., Gerber, C., Gimzewski, J.K., Battiston, F.M., Fornaro, P., Ramseyer, J.P., Meyer, E. and Güntherodt, H.J., An artificial nose based on a micromechanical cantilever array, 393 (1999) 59

Langdon, A.G., see Raksasataya, M., 332 (1996) 1

Langdon, A.G., see Raksasataya, M., 347 (1997) 313

Länge, K., Rapp, F.-R., Gauglitz, G. and Brecht, A., Flow injection immunotitration: extended working range for inhibition type immunodetection, 399 (1999) 275

Langford, M.L., see Munro, W.A., 374 (1998) 253

Langford, M.L., see Munro, W.A., 375 (1998) 49

Langhans, I., see Verberckmoes, A.A., 348 (1997) 267

Langlois, M., see Ouyang, J., 362 (1998) 113

Langoor, M.H., see Luinge, H.J., 348 (1997) 471

Lanza, P. and Marzocchi, A., Stoichiometry of superconducting YBa<sub>2</sub>Cu<sub>3</sub>O<sub>y</sub> A comparison of methods for the determination of the Cu(I):Cu(II) ratio, 304 (1995) 223

Lanza, P., Polarographic determination of yttrium based on reduction of its solochrome violet RS complexApplication to the analysis of the superconductor YBa<sub>2</sub>Cu<sub>3</sub>O<sub>v</sub>, 341 (1997) 91

Lao, W., see You, J., 382 (1999) 51

Lao, W., see You, J., 391 (1999) 43

Lapa, R.A., Lima, J.L., Reis, B.F. and Santos, J.L., Continuous sample recirculation in an opened-loop multicommutated flow system, 377 (1998) 103

Lapa, R.A., Lima, J.L., Reis, B.F., Santos, J.L. and Zagatto, E.A., A multicommutated flow system with on-line compensation of the Schlieren effect applied to the spectrophotometric determination of pindolol, 366 (1998) 209

Lapa, R.A., see Honorato, R.S., 396 (1999) 91

Lapa, R.A.S., Lima, J.L.F.C., Reis, B.F., Santos, J.L.M. and Zagatto, E.A.G., Photochemical-fluorimetric determination of folic acid in a multicommutated flow system, 351 (1997) 223

Laparra, M.C., see Hubert, P., 391 (1999) 135

Lapierre, A.V., Olsina, R.A. and Raba, J., Continuous-flow/stoppedflow system incorporating a rotating bioreactor for the determination of penicillins in pharmaceutical products, 396 (1999) 143

Largiuni, O., see Giacomelli, M.C., 396 (1999) 285

Larice, J.-L., see Vieillescazes, C., 317 (1995) 65

Larive, C.K., see Lin, M., 307 (1995) 449 Larpent, C., see Moulin, C., 378 (1999) 47

Larrechi, M.S., see Ferré, J., 348 (1997) 167

Larrechi, M.S., see Ruisánchez, I., 348 (1997) 113

Larsen, O., see Mank, A.J.G., 323 (1996) 1

Larsen, O.F.A., see Kozin, I.S., 354 (1997) 181

Larson, D., see Wang, J., 310 (1995) 223

Larsson, N., see Min, R.W., 366 (1998) 127

Larsson, P.-O., see Dzgoev, A., 347 (1997) 87

Larsson, P.O., see Momeni, N., 387 (1999) 21

Larsson, P.O., see Tang, X.J., 374 (1998) 185

Larsson, T., Elmgren, M., Lindquist, S.-E., Tessema, M., Gorton, L. and Henriksson, G., Electron transfer between cellobiose dehydrogenase and graphite electrodes, 331 (1996) 207

Larsson, T., see Gorton, L., 400 (1999) 91

Larsson, T., see Tessema, M., 349 (1997) 179

Laserna, J.J., see Ayora, M.J., 355 (1997) 15

Laserna, J.J., see Cabalin, L.M., 310 (1995) 337

Laserna, J.J., see Cabalin, L.M., 318 (1996) 203

Laserna, J.J., see Hidalgo, M., 318 (1996) 229

Laserna, J.J., see Pérez, R., 369 (1998) 197

Laserna, J.J., see Pérez, R., 376 (1998) 255

Laserna, J.J., see Rupérez, A., 335 (1996) 87

Last, I.R., see Jouan-Rimbaud, D., 304 (1995) 285

Last, I.R., see Jouan-Rimbaud, D., 315 (1995) 257

Last, I.R., see Wu, W., 315 (1995) 243

Lastres, E., see Alpizar, J., 340 (1997) 149

Lastres, E., see Cladera, A., 350 (1997) 163

Laszak, I., see Moulin, C., 396 (1999) 253

Lattuca, C., see Bianco, P., 353 (1997) 53 Latva, M., see Ala-Kleme, T., 395 (1999) 205

Latva, M., see Kulmala, S., 347 (1997) 333

Lau, O.-W. and Bing, S., Correction for the effects of viscoelastic changes in a piezoelectric quartz crystal by the multiple linear regression method, 343 (1997) 85

Lau, O.W. and Cheng, O.M., Determination of zinc in environmental samples by anodic stripping voltammetry, 376 (1998) 197

Lau, O.-W. and Mok, C.-S., Indirect conductometric detection of amino acids after liquid chromatographic separation Part II. determination of monosodium glutamate in foods, 302 (1995)

Lau, O.-W. and Wong, S.-K., Mathematical model for the migration of plasticisers from food contact materials into solid food, 347 (1997) 249

Laube, A., see Degueldre, C., 396 (1999) 23

Laue, R., see Benecke, C., 314 (1995) 141

Laughton, C.A., see Pope, L.H., 400 (1999) 27

Launhardt, T., see Vierle, O., 393 (1999) 131

Laurell, T., see Torto, N., 374 (1998) 111

Laurell, T., see Torto, N., 379 (1999) 281

Laurenczy, G., Lukács, F. and Roulet, R., A new variable temperature and pressure infrared cell to study liquid and liquid-gas systems, 359 (1998) 275

Laurenti, F., see Alimonti, A., 342 (1997) 75

Laurentie, M., see Hubert, P., 391 (1999) 135

Laurinavicius, V., Kurtinaitiene, B., Gureviciene, V., Boguslavsky, L., Geng, L. and Skotheim, T., Amperometric glyceride biosensor, 330 (1996) 159

Laurinavicius, V., see Boguslavsky, L., 311 (1995) 15

Lauritsen, F.R., see Kotiaho, T., 309 (1995) 317

Lavagnini, I., see Daniele, S., 361 (1998) 141

Lavagnini, I., see Magno, F., 305 (1995) 96

Lavilla, I., Perez-Cid, B. and Bendicho, C., Use of flow-injection sample-to-standard addition methods for quantification of metals leached by selective chemical extraction from sewage sludge, 381 (1999) 297

Lavilla, I., see Pérez-Cid, B., 360 (1998) 35

Lavilla, I., see Pérez-Cid, B., 378 (1999) 201

Lavrik, N.V., see Sergeyeva, T.A., 391 (1999) 289

Lawrance, G.A., see Dyson, R.M., 353 (1997) 381

Lawrence, J.F., see Ben Rejeb, S., 376 (1998) 41

Lawrence, J.F., see Ben Rejeb, S., 376 (1998) 133

Lawson, G.E., see Ya-Ping, S., 319 (1996) 379

Lázaro, F., see Morais, S., 353 (1997) 245

Le Bihan, A., see Le Garrec, H., 350 (1997) 171

Le Bihan, A., see Le Garrec, H., 368 (1998) 59

Le Botlan, D. and Helie-Fourel, I., Assessment of the intermediate phase in milk fat by low-resolution nuclear magnetic resonance, 311 (1995) 217

Le Botlan, D.J. and Ouguerram, L., Spin-spin relaxation time determination of intermediate states in heterogeneous products from free induction decay NMR signals, 349 (1997) 339

Le Bris, N. and Birot, D., Automated pH-ISFET measurements under hydrostatic pressure for marine monitoring application, 356 (1997) 205

le Clercq, M., van der Plicht, J. and Meijer, H.A., A supercritical oxidation system for the determination of carbon isotope ratios in marine dissolved organic carbon, 370 (1998) 19

Le Coeur, C., see Qiuyu, Z., 352 (1997) 201

Le Corre, P., see Riso, R.D., 351 (1997) 83

Le Gal La Salle, A., Limoges, B., Rapicault, S., Degrand, C. and Brossier, P., New immunoassay techniques using Nafion-modified electrodes and cationic redox labels or enzyme labels, 311 (1995) 301

Le Garrec, H., Giamarchi, P., Cabon, J.Y. and Le Bihan, A., Electrothermic factors optimization in electrothermal atomic absorption spectrometry via an optimal experimental design matrix, 368 (1998) 59

Le Garrec, H., Giamarchi, P., Cabon, J.-Y., Appriou, P. and Le Bihan, A., Spectroscopic factors optimization in electrothermal atomic absorption spectrometry via an optimal experimental design matrix, 350 (1997) 171

Le Goffic, F.v., see Ben Rejeb, S., 376 (1998) 41

Le Goffic, F.v., see Ben Rejeb, S., 376 (1998) 133

Le Naour, C., see Trubert, D., 332 (1996) 257

Le Naour, C., see Trubert, D., 374 (1998) 149

Le Vent, S.. Simulation of chromatographic peaks by simple functions, 312 (1995) 263

Le, D., see Lili, B., 319 (1996) 97

Le, H.M., see Székács, A., 399 (1999) 127

Lead, J.R., Hamilton-Taylor, J., Peters, A., Reiner, S. and Tipping, E., Europium binding by fulvic acids, 369 (1998) 171

Lead, J.R., see Jones, M.N., 314 (1995) 149

Leal, C., see Compañó, R., 302 (1995) 185

Leal, C., see Compañó, R., 314 (1995) 175

Leal, M.F.C., see Vasconcelos, M.T., 330 (1996) 273

Leal, M.F.C., see Vasconcelos, M.T.S.D., 353 (1997) 189

Leardi, R., see Grotti, M., 327 (1996) 47

Leardi, R., see Grotti, M., 376 (1998) 293

Lebrilla, C.B., see Carroll, J.A., 307 (1995) 431

Leca, B. and Marty, J.-L., Reusable ethanol sensor based on a NAD\*-dependent dehydrogenase without coenzyme addition, 340 (1997) 143

Leddy, J., see Amarasinghe, S., 307 (1995) 227

Ledeme, N., see Leflon, P., 327 (1996) 301

Lederer, M. and Leipzig-Pagani, E., A simple alternative determination of the formation constant for the inclusion complex between rutin and β-cyclodextrin, 329 (1996) 311

Lederer, M. and Leipzig-Pagani, E., Studies of platinum(II) compounds in aqueous solution. Part 1. K<sub>2</sub>PtCl<sub>4</sub>, 350 (1997) 203

Lederer, M. and Leipzig-Pagani, E., Studies of platinum(II) compounds in aqueous solution. Part 2. cis-Pt(NH<sub>3</sub>)<sub>2</sub>Cl<sub>2</sub>, 358 (1998) 61

Lederer, M. and Leipzig-Pagani, E., Thin layer chromatographic and electrophoretic study of mixed chloro-thiocyanato and chloroselenocyanato complexes of platinum(IV), 391 (1999) 315

Lederer, M., The perchlorate effect with metallo-cyanide complexes on cellulose anion exchange thin layers, 364 (1998) 93

Lederer, M., Leipzig-Pagani, E. and Lumini, T., Studies of platinum(II) compounds in aqueous solution. Part 3. The study of some reactions of K<sub>2</sub>[PtCl<sub>4</sub>] and K[Pt(NH<sub>3</sub>)Cl<sub>3</sub>], 371 (1998) 279

Lee Jeong, M. and Chesney, D.J., Determination of N-methylcarbamate pesticides from spiked matrices using supercritical fluid extraction, 389 (1999) 53

Lee, A., see Rechnitz, G.A., 337 (1997) 297

Lee, A.W., see Hong Chan, W., 361 (1998) 55

Lee, A.W.M., see Hong Chan, W., 370 (1998) 259

Lee, A.W.M., Chan, W.F., Yuen, F.S.Y., Lo, C.H., Chan, R.C.K. and Liang, Y., Simultaneous determination of dithiocarbamates by capillary electrophoresis with diode array detection and using factor analysis, 339 (1997) 123

Lee, A.W.M., see Wing, H.C., 351 (1997) 197

Lee, A.W.M., Wing, H.C., Ke, M.W. and Zi, D.L., Reverse-phase optode. Design and characterization of an organic acid-selective optode membrane based on fluorescein sodium, 322 (1996) 99

Lee, D.S., Noh, B.S., Bae, S.Y. and Kim, K., Characterization of fatty acids composition in vegetable oils by gas chromatography and chemometrics, 358 (1998) 163

Lee, H.G. and Desiderio, D.M., Analytical and preparative capillary zone electrophoresis of opioid peptides, 383 (1999) 79

Lee, K.H., Ishikawa, T., McNiven, S., Nomura, Y., Sasaki, S., Arikawa, Y. and Karube, I., Chemical oxygen demand sensor employing a thin layer electrochemical cell, 386 (1999) 211

Lee, K.H., Ishikawa, T., McNiven, S.J., Nomura, Y., Hiratsuka, A., Sasaki, S., Arikawa, Y. and Karube, I., Evaluation of chemical oxygen demand (COD) based on coulometric determination of electrochemical oxygen demand (EOD) using a surface oxidized copper electrode, 398 (1999) 161

Lee, K.M., Appleton, J., Cooke, M., Keenan, F. and Sawicka-Kapusta, K., Use of laser ablation inductively coupled plasma mass spectrometry to provide element versus time profiles in teeth, 395 (1999) 179 Lee, K.S., Kim, T.H., Shin, M.C., Lee, W.Y. and Park, J.K., Disposable liposome immunosensor for theophylline combining an immunochromatographic membrane and a thick-film electrode, 380 (1999) 17

Lee, K.S., see Park, J.K., 390 (1999) 83

Lee, M., Durst, R.A. and Wong, R.B., Comparison of liposome amplification and fluorophor detection in flow-injection immunoanalyses, 354 (1997) 23

Lee, N.-M., see Liu, C.-Y., 337 (1997) 173

Lee, N.M., see Liu, C.Y., 369 (1998) 225

Lee, S., see Stiger, R.M., 307 (1995) 377

Lee, S.-K. and Okura, I., Porphyrin-doped sol-gel glass as a probe for oxygen sensing, 342 (1997) 181

Lee, T.-y., Tsuzuki, M., Takeuchi, T., Yokoyama, K. and Karube, I., Quantitative determination of cyanobacteria in mixed phytoplankton assemblages by an in vivo fluorimetric method, 302 (1995) 81

Lee, W.Y., see Lee, K.S., 380 (1999) 17

Lee, W.Y., see Park, J.K., 390 (1999) 83

Lee, X.P., see Kumazawa, T., 387 (1999) 53

Lee, Y.H. and Hall, E.A.H., Methacrylate-acrylate based polymers of low plasticiser content for potassium ion-selective membranes, 324 (1996) 47

Leech, D., see Doherty, A.P., 319 (1996) 111

Leech, D., see Huangxian, J., 345 (1997) 51

Leech, D., see Ni, J.A., 378 (1999) 151

Leflon, P., Plaquet, R., Rose, F., Hennon, G. and Ledeme, N., Rapid determination of lithium in human serum and urine, at physiological concentrations, by inductively coupled argon plasma atomic emission spectrometry, 327 (1996) 301

Lefrant, S., see Grummt, U.W., 357 (1997) 253

Legin, A., Smirnova, A., Rudnitskaya, A., Lvova, L., Suglobova, E. and Vlasov, Y., Chemical sensor array for multicomponent analysis of biological liquids, 385 (1999) 131

Legrand, M., see Houdier, S., 382 (1999) 253

Legrand, P., see Dupuy, N., 335 (1996) 79

Legrand, P., see Ruckebusch, C., 396 (1999) 241

Lehaitre, M., see Daniel, A., 308 (1995) 413

Lehmann, F., see Mohr, G.J., 344 (1997) 215

Lehmann, F., see Mohr, G.J., 360 (1998) 119

Lehnert, R.J., see Clayden, N.J., 344 (1997) 261

Lehr, B., see Uhl, S., 303 (1995) 17

Lehtinen, P., see Härmä, H., 387 (1999) 11

Lehtinen, T., see Kulmala, S., 398 (1999) 41

Lei, S., see Jiali, W., 333 (1996) 125

Leiner, M.J., see Huber, C., 398 (1999) 137

Leiner, M.J.P., see Schulman, S.G., 304 (1995) 165

Leipert, D., Rathgeb, F., Herold, M., Mack, J., Gauglitz, G. and Jung, G., Interaction between volatile organic compounds and cyclopeptides detected with reflectometric interference spectroscopy, 392 (1999) 213

Leipzig-Pagani, E., see Lederer, M., 329 (1996) 311

Leipzig-Pagani, E., see Lederer, M., 350 (1997) 203

Leipzig-Pagani, E., see Lederer, M., 358 (1998) 61

Leipzig-Pagani, E., see Lederer, M., 371 (1998) 279

Leipzig-Pagani, E., see Lederer, M., 391 (1999) 315

Lejeune, R., see Otte, X., 355 (1997) 7

Lejeune, R., Thunus, J. and Thunus, L., Polarographic determination of Sn(II) in samples containing Sn(IV) such as in 99m-Technetium radiopharmaceutical kits, 332 (1996) 67

Lemieux, L., Amiot, J., Piot, J.M. and Guillochon, D., Separation of a casein hydrolyzate by HPSEC with a new mobile phase and characterization of peptides by FABMS, 352 (1997) 399

Lemos, M.A.N.D.A., see Papadopoulos, N., 306 (1995) 107

Lenarczuk, T., see Koncki, R., 379 (1999) 69

Lenda, J., see Seitz, W. Rudolf, 400 (1999) 55

Lendl, B., see Mittermayr, C.R., 388 (1999) 303

Lendl, B., see Schindler, R., 366 (1998) 35

Lendl, B., see Schindler, R., 391 (1999) 19 Lenihan, R.J., see Downard, A.J., 345 (1997) 5

León, C., Emons, H., Ostapczuk, P. and Hoppstock, K., Simultaneous ultratrace determination of platinum and rhodium by cathodic stripping voltammetry, 356 (1997) 99

Leonardi, L. and Burns, D.H., Quantitative constituent measurements in scattering media from statistical analysis of photon time-of-flight distributions, 348 (1997) 543

León-Camacho, M., see Carrera, F., 370 (1998) 131

Leong, L.S., see Tanner, P.A., 342 (1997) 247

León-González, M.E., see Hipólito-Moreno, A., 362 (1998) 187

León-González, M.E., see Navarro-Villoslada, F., 308 (1995) 238

León-González, M.E., see Navarro-Villoslada, F., 313 (1995) 93

León-González, M.E., see Navarro-Villoslada, F., 381 (1999) 93

Leppämäki, M., see Sundqvist, S., 391 (1999) 269

Lepre, A., see Mills, A., 362 (1998) 193

Lepri, L., Desideri, P., Cini, R., Masi, F. and van Erk, M.S., Transport of organochlorine pesticides across the air/sea interface during the aerosol process, 317 (1995) 149

Lerch, T., see Menzel, C., 317 (1995) 259

Lerchi, M., see Anticó, E., 388 (1999) 327

Lerner, D.A., see Sbai, M., 303 (1995) 47

Leroy, M., see Martin, M., 373 (1998) 161 Leśniewska, B., see Godlewska-Żyłkiewicz, B., 358 (1998) 185

Lessi, P., Dias Filho, N.L., Moreira, J.C. and Campos, J.T.S., Sorption and preconcentration of metal ions on silica gel modified with 2,5-dimercapto-1,3,4-thiadiazole, 327 (1996) 183

Leszczyńska, E., Głab, S., Sokół, A., Dziegielewski, K., Rokicka, R. and Koncki, R., Potentiometric biosensor for control of biotechnological production of penicillin G, 368 (1998) 205

Leszczyńska, E., see Koncki, R., 321 (1996) 27

Leszczyńska, E., see Wałcerz, I., 315 (1995) 289

Letellier, S., Maupas, B., Gramond, J.P., Guyon, F. and Gareil, P., Determination of the formation constant for the inclusion complex between rutin and methyl-β-cyclodextrin, 315 (1995) 357

Leu, H.J., see Shan Lin, M., 388 (1999) 111

Leussink, E.D., see Luinge, H.J., 345 (1997) 173

Lev, O., see Gun, J., 336 (1996) 95

Levashov, A., see Dukhovich, A., 303 (1995) 85

Levi, R., see McNiven, S., 365 (1998) 69

Levitchev, S.S., see Schwake, A., 393 (1999) 19

Lewenstam, A., see Bakker, E., 393 (1999) 11

Lewenstam, A., see Bobacka, J., 385 (1999) 195

Lewenstam, A., see Lindfors, T., 385 (1999) 163

Lewenstam, A., see Migdalski, J., 322 (1996) 141

Lewenstam, A., see Migdalski, J., 395 (1999) 65

Lewis, J., see Spurlock, L.D., 336 (1996) 37

Lewis, J.C., Feliciano, J. and Daunert, S., Fluorescence binding assay for a small peptide based on a GFP fusion protein, 397 (1999) 279

Lewis, J.C., see Ramanathan, S., 369 (1998) 181

Lewis, R.J., see Burns, D.T., 307 (1995) 89

Lewis, R.J., see Burns, D.T., 309 (1995) 189

Lewis, R.J., see Burns, D.T., 339 (1997) 259

Lewis, R.J., see Burns, D.T., 349 (1997) 333

Lewis, R.J., see Thorburn Burns, D., 375 (1998) 255

Lewis, S.W., see Barnett, N.W., 362 (1998) 131

Lewis, S.W., see Barnett, N.W., 384 (1999) 151

Lewis, S.W., see Gerardi, R.D., 378 (1999) 1

Lewis, T. John, see Reddy, S.M., 363 (1998) 203

Lewis, T.W., see Teasdale, P.R., 367 (1998) 201

Lhomme, J., see Houdier, S., 382 (1999) 253

Li, A.M., see Liao, Y.P., 360 (1998) 209 Li, B., see Qin, W., 372 (1998) 357

Li, B., see Zhang, J., 388 (1999) 71

Li, C., Chai, C., Mao, X. and Ouyang, H., Chemical speciation study of platinum group elements in geological samples by stepwise dissolution and inductively coupled plasma mass spectrometry, 374 (1998) 93

Li, C., see Furton, K.G., 304 (1995) 203

Li, D., see Reisenhofer, E., 306 (1995) 99

Li, D.h., see Chen, Q.y., 381 (1999) 175

Li, D.H., see Zhu, Q.Z., 375 (1998) 177 Li, D.H., see Zhu, Q.Z., 394 (1999) 177

Li, D.H., Zhu, Q.Z., Ye, D., Fang, Y. and Xu, J.G., A rapid method for the determination of molar ratio of fluorophore to protein by

fluorescence anisotropy detection, 389 (1999) 85 Li, H., see Liu, H., 358 (1998) 137

Li, H., see Wang, A., 386 (1999) 265

Li, H., see Wang, C., 361 (1998) 133

Li, J. and Dasgupta, P.K., Chemiluminescence detection with a liquid core waveguide. Determination of ammonium with electrogenerated hypochlorite based on the luminol-hypochlorite reaction, 398 (1999) 33

Li, J. and Robison, T., Application of linear solvation energy relationships to guide selection of polar modifiers in normalphase liquid chromatographic separations, 395 (1999) 85

Li, J. and Whitman, D.A., Characterization and selectivity optimization on diol, amino, and cyano normal phase columns based on linear solvation energy relationships, 368 (1998) 141

Li, J. and Xu, H., Determination of branched carbon number distribution of polyacrylate by liquid chromatography, 357 (1997) 219

Li, J., Effect of temperature on selectivity in reversed-phase liquid chromatography, a thermodynamic analysis, 369 (1998) 21

Li, J., A computational study on the effect of random noise on the precision and accuracy of the integration of chromatographic peaks, 388 (1999) 187

Li, J., Chia, L.S., Goh, N.K. and Tan, S.N., Silica sol-gel immobilized amperometric biosensor for the determination of phenolic compounds, 362 (1998) 203

Li, J., see Cai, B., 399 (1999) 249

Li, J., see Gong, B., 362 (1998) 247

Li, J., see Hongwei, Z., 342 (1997) 59

Li, J., see Liu, Z., 338 (1997) 57

Li, J., see Roussin, J.A., 303 (1995) 199

Li, J., see Zhu, M., 357 (1997) 261

Li, J., Xu, H. and Yin, G., Determination of alkylated polystyrene pour point depressant by preparative gel permeation chromatography, infrared spectrometry and nuclear magnetic resonance spectrometry, 373 (1998) 73

Li, K.A., see Wang, Y.T., 396 (1999) 75

Li, K.-a., see Wei, Y.-j., 341 (1997) 97

Li, K.A., see Yao, G., 398 (1999) 319

Li, L., see Guo, Z.X., 379 (1999) 45

Li, L., see Guo, Z.X., 379 (1999) 63

Li, L., see Tong, A., 369 (1998) 11

Li, L.D., see Tong, A.J., 390 (1999) 125

Li, M., see Pu Liu, S., 379 (1999) 53

Li, M.X., Li, N.Q., Gu, Z.N., Zhou, X.H., Sun, Y.L. and Wu, Y.Q., Electrocatalysis by a C<sub>60</sub>-γ-cyclodextrin (1:2) and nafion chemically modified electrode of hemoglobin, 356 (1997) 225

Li, N.B., see Huang, C.Z., 395 (1999) 187

Li, N.Q., see Li, M.X., 356 (1997) 225

Li, N.-Q., see Qu, F., 344 (1997) 97

Li, P., see Penrose, W.R., 313 (1995) 209

Li, P.C.H. and Thompson, M., Mass sensitivity of the tube acoustic wave sensor in the extensional mode, 336 (1996) 13

Li, P.C.H. and Thompson, M., Water-instigated changes in elastic modulus of polypyrrole studied by thin rod acoustic wave sensor, 353 (1997) 255

Li, Q., see Cui, H., 362 (1998) 151

Li, Q., see Miao, H., 358 (1998) 297

Li, Q.X., see Liu, M., 387 (1999) 29

Li, R., Jiang, Z.T., Mao, L.Y. and Shen, H.X., Adsorbed resin phase spectrophotometric determination of nickel, 363 (1998) 295

Li, R., see Jiang, Z.T., 392 (1999) 247

Li, S., see Chang, X., 354 (1997) 143

Li, S.F.Y., see Rodriguez, I., 383 (1999) 1

Li, S.F.Y., see Zhou, X.C., 345 (1997) 29

Li, T., Coufal, P., Opekar, F., Štulík, K. and Wang, E., An amperometric detector with a tubular electrode deposited on the capillary for capillary liquid chromatography, 360 (1998) 53

Li, T., see Liu, Z., 338 (1997) 57

Li, W., see Long, Y., 395 (1999) 33

Li, W.-Y., Guo, X.-Q., Xu, J.-G., Zhu, Q.-Z. and Zhao, Y.-B., Determination of DNA using sodium 9.10-anthraquinone-2-sulfonate as an in situ photochemical fluorescence probe, 340 (1997) 291

Li, X., see McNamara, K.P., 361 (1998) 73

Li, X.Y., see Zhang, H.S., 380 (1999) 101

Li, Y., Jiang, J.H., Chen, Z.P., Xu, C.J. and Yu, R.Q., A new method based on counterpropagation network algorithm for chemical pattern recognition, 388 (1999) 161

Li, Y., see Chen, Z.P., 381 (1999) 233

Li, Y., see Wang, X., 400 (1999) 135

Li, Y., see Zhou, J., 394 (1999) 353

Li, Y.C. and Jiang, S.J., Determination of Cu, Zn, Cd and Pb in fish samples by slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry, 359 (1998) 205

Li, Y.C., Jiang, S.J. and Chen, S.F., Determination of Ge, As, Se, Cd and Pb in plant materials by slurry sampling-electrothermal vaporization-inductively coupled plasma-mass spectrometry, 372 (1998) 365

Li, Y.F., see Huang, C.Z., 395 (1999) 187

Li, Y.F., see Zhang, Z.Q., 382 (1999) 283

Li, Y.G., Zhou, Y.X., Feng, J.L., Jiang, Z.H. and Ma, L.R., Immobilization of enzyme on screen-printed electrode by exposure to glutaraldehyde vapour for the construction of amperometric acetylcholinesterase electrodes, 382 (1999) 277

Li, Y.-Z. and Townshend, A., Comparative study of some synthesised and commercial fluorogenic substrates for horseradish peroxidase and its mimetic enzyme hemin by a flow injection method, 340 (1997) 159

Li, Y.z. and Townshend, A., Evaluation of the adsorptive immobilisation of horseradish peroxidase on PTFE tubing in flow systems for hydrogen peroxide determination using fluorescence detection, 359 (1998) 149

Li, Y.-z., see Liu, X.-j., 345 (1997) 213

Li, Y.z., see Zhu, L., 369 (1998) 205

Li, Z., see Chen, Z., 367 (1998) 11

Li, Z.-l., Mou, S.-f., Ni, Z.-m. and Riviello, J.M., Sequential determination of arsenite and arsenate by ion chromatography, 307 (1995) 79

Li, Z.Q., Liu, G.D., Duan, L.M., Shen, G.L. and Yu, R.Q., Sulfate-selective PVC membrane electrodes based on a derivative of imidazole as a neutral carrier, 382 (1999) 165

Li, Z.Q., see Wu, Z.Y., 398 (1999) 57

Liag, Y.Z., see Chen, Z.P., 381 (1999) 233

Liang, C., see Lui, J., 329 (1996) 297

Liang, C., see Wang, J., 319 (1996) 347

Liang, J., see Xiong, G., 371 (1998) 97 Liang, S.-C., see Ming, S., 338 (1997) 103

Liang, X., Schechter, I., Guoqiang, L. and Zhicheng, G., Chemometric study of differential kinetic analysis by the method of proportional equations, 322 (1996) 195

Liang, Y., see Lee, A.W.M., 339 (1997) 123

Liang, Y.-Z., see Lin, Z., 344 (1997) 29

Liang, Y.Z., see Zhang, L., 370 (1998) 65

Lianidou, E.S., Ioannou, P.C., Polydorou, C.K. and Efstathiou, C.E., Synchronous scanning second derivative spectrofluorimetry for the simultaneous determination of diflunisal and salicylic acid added to serum and urine as ternary complexes with terbium and EDTA, 320 (1996) 107

Lianidou, E.S., see Veiopoulou, C.J., 335 (1996) 177

Liao, Y., see Wang, W., 375 (1998) 261

Liao, Y.P., Chen, G., Yan, D., Li, A.M. and Ni, Z.M., Investigation of thallium hydride generation using in situ trapping in graphite tube by atomic absorption spectrometry, 360 (1998) 209

Liao, Y.p., see Gammelgaard, B., 354 (1997) 107

Libera, L.D., Martin, B., Massimino, M.L. and Cantini, M., Partial purification and biochemical characterization by liquid chromatography of specific myo-mitogenic factor(s) from culture medium of activated macrophages, 352 (1997) 271 Licht, S., see Heiman, A., 394 (1999) 135

Lichtig, J., Andrade, R.F. and Vaz, J.M., Determination of secnidazol in pharmaceutical tablets and intestinal fluids by differential pulse polarography, 332 (1996) 161

Lichtig, J., see Masini, J.C., 364 (1998) 223

Lidén, H., Mandenius, C.F., Gorton, L., Meinander, N.Q., Lundström, I. and Winquist, F., On-line monitoring of a cultivation using an electronic nose, 361 (1998) 223

Lidén, H., see Buttler, T., 324 (1996) 103

Lidén, H., see Lutz, M., 305 (1995) 8

Liermann, J., see Haisch, C., 346 (1997) 23

Ligler, F.S., see Bakaltcheva, I.B., 399 (1999) 13

Lignot, B., see Ruckebusch, C., 396 (1999) 241

Lihua, N., see Dezhong, L., 313 (1995) 229

Lihua, N., see Dezhong, L., 320 (1996) 245

Lihua, N., see Huwei, T., 353 (1997) 29

Lihua, N., see Kang, C., 329 (1996) 83 Lihua, N., see Lili, B., 319 (1996) 97

Lihua, N., see Yuanjin, X., 312 (1995) 9

Lihua, N., see Yuanjin, X., 325 (1996) 65

Liju, Y., see Qiong, C., 369 (1998) 245

Lili, B., Le, D., Lihua, N., Shouzhuo, Y. and Wanzhi, W., Determination of microorganisms with a quartz crystal microbalance sensor, 319 (1996) 97

Lill, J.-O., Harju, L., Saarela, K.-E., Lindroos, A. and Heselius, S.-J., Increased sensitivity in thick-target particle induced X-ray emission analyses using dry ashing for preconcentration, 378 (1999) 273

Lim, C.H., see Hyun, J.H., 342 (1997) 83

Lim, H.B., see Hyun, J.H., 342 (1997) 83

Lim, T.K., Nakamura, N. and Matsunaga, T., Flow immunoassay using a cation exchange column and fluorescence-labelled antibody for detection of allergen, 354 (1997) 29

Lim, T.k., Nakamura, N. and Matsunaga, T., Automated flow immunoassay for detection of food allergen using anionexchange resin and alkaline phosphatase conjugated immunoglobulin G, 370 (1998) 207

Lima, A.W., Nascimento, V.B., Pedrotti, J.J. and Angnes, L., Coconut-based plant tissue reactor for biosensing of catechol in flow injection analysis, 354 (1997) 325

Lima, E.C., see Masini, J.C., 364 (1998) 223

Lima, F., see Duarte, M.M.M.B., 350 (1997) 353

Lima, J.F., Delerue-Matos, C. and Carmo Vaz1, M., Flow-injection analysis of Kjeldahl nitrogen in milk and dairy products by potentiometric detection, 385 (1999) 437

Lima, J.L., Lopes, T.I. and Rangel, A.O., Enzymatic determination of L(+) lactic and L(-) malic acids in wines by flow-injection spectrophotometry, 366 (1998) 187

Lima, J.L., Rangel, A.O., Souto, M. Renata S. and Zagatto, E.A., Turbidimetric flow-injection determination of total nitrogen and potassium in vegetables, 356 (1997) 259

Lima, J.L., see Araújo, A.N., 358 (1998) 111

Lima, J.L., see Couto, C.M., 366 (1998) 155

Lima, J.L., see Lapa, R.A., 366 (1998) 209

Lima, J.L., see Lapa, R.A., 377 (1998) 103

Lima, J.L., see Vieira, J.A., 366 (1998) 257

Lima, J.L.F., see Luca, G.C., 366 (1998) 193

Lima, J.L.F.C., see Araújo, A., 310 (1995) 289

Lima, J.L.F.C., see Araújo, A.N., 310 (1995) 447

Lima, J.L.F.C., see Brett, C.M.A., 339 (1997) 167

Lima, J.L.F.C., see de Gracia, J., 348 (1997) 143

Lima, J.L.F.C., see Jun, X., 339 (1997) 231

Lima, J.L.F.C., see Lapa, R.A.S., 351 (1997) 223

Lima, J.L.F.C., see Lopes, T.I.M.S., 308 (1995) 122

Lima, J.L.F.C., see Martelli, P.B., 308 (1995) 397

Lima, J.L.F.C., see Martelli, P.B., 317 (1995) 239

Lima, J.L.F.C., see Silva, E.C., 319 (1996) 153

Lima, J.L.F.C., see Xiao, J., 321 (1996) 263

Lima, R.A., see Honorato, R.S., 396 (1999) 91

Limaye, A., see Lyn, D.A., 363 (1998) 171

Limbach, P.A., see Macha, S.F., 397 (1999) 235

Limoges, B., see Bordes, A.L., 356 (1997) 195

Limoges, B., see Le Gal La Salle, A., 311 (1995) 301

Limson, J. and Nyokong, T., Substituted catechols as complexing agents for the determination of bismuth, lead, copper and cadmium by adsorptive stripping voltammetry, 344 (1997) 87

Lin, C., see Yang, J., 363 (1998) 105

Lin, C., Yang, J., Zhang, G., Wu, X., Han, R., Cao, X. and Gao, Z., Study of the reaction between nucleic acids and the trihydroxyanthroquinone-Al complex and its analytical application, 392 (1999) 291

Lin, C.C., see Wang, C.F., 368 (1998) 11

Lin, C.-H., see Matsumoto, J., 343 (1997) 129

Lin, C.Y., see Lin, S.J., 386 (1999) 113

Lin, H., see Dan-Ke, X., 335 (1996) 95

Lin, H.G., see Xiang, J.N., 384 (1999) 37

Lin, J., Lo, S.-C. and Brown, C.W., Calibration transfer from a scanning near-IR spectrophotometer to a FT-near-IR spectrophotometer, 349 (1997) 263

Lin, J., see Sonoki, S., 365 (1998) 213

Lin, J.M., Arakawa, H. and Yamada, M., Flow injection chemiluminescent determination of trace amounts of hydrogen peroxide in snow-water using KIO<sub>4</sub>-K<sub>2</sub>CO<sub>3</sub> system, 371 (1998)

Lin, J.M., see Tsukada, S., 371 (1998) 163

Lin, J.-M., Tsuji, A. and Maeda, M., Chemiluminescent flow injection determination of alkaline phosphatase and its applications to enzyme immunoassays, 339 (1997) 139

Lin, L. and Arnold, M.A., General model for the steady-state response properties of fiber-optic ammonia gas sensors, 317 (1995) 265

Lin, M., Jayawickrama, D.A., Rose, R.A., DelViscio, J.A. and Larive, C.K., Nuclear magnetic resonance spectroscopic analysis of the selective complexation of the cis and trans isomers of phenylalanylproline by β-cyclodextrin, 307 (1995) 449

Lin, M.S. and Shih, W.C., Chromium hexacyanoferrate based glucose biosensor, 381 (1999) 183

Lin, R.E., see Chen, G.N., 375 (1998) 269

Lin, S.J., Wu, H.L. and Lin, C.Y., A new derivatization reagent 2-(pentafluorophenoxy)ethyl 2-(piperidino)ethanesulfonate for gas chromatography, 386 (1999) 113

Lin, S.X., Gangloff, A., Huang, Y.W. and Xie, B., Electrophoresis of hydrophobic proteins, 383 (1999) 101

Lin, T., see Gong, B., 362 (1998) 247

Lin, T.S. and Nriagu, J.O., Thallium speciation in river waters with Chelex-100 resin, 395 (1999) 301

Lin, X., see Wu, J., 327 (1996) 133

Lin, Z., Jiang, J.-H., Ping, L., Liang, Y.-Z. and Yu, R.-Q., Multivariate nonlinear modelling of fluorescence data by neural network with hidden node pruning algorithm, 344 (1997) 29

Lin, Z., see Guo, N.C., 341 (1997) 251

Lin, Z.-G., see Yan, Y., 306 (1995) 307

Lin, Z.H., see Zhao, Y.D., 388 (1999) 93

Lind, P., Skarping, G. and Dalene, M., Biomarkers of toluene diisocyanate and thermal degradation products of polyurethane, with special reference to the sample preparation, 333 (1996) 277

Lindblom, P., New compact Echelle spectrographs with multichannel time-resolved recording capabilities, 380 (1999) 353

Lindfors, T., Bobacka, J. and Ivaska, A., Electrosynthesis of polypyrrole in iodide solution. Film growth, redox behaviour and potentiometric response, 355 (1997) 217

Lindfors, T., Sjöberg, P., Bobacka, J., Lewenstam, A. and Ivaska, A., Characterization of a single-piece all-solid-state lithium-selective electrode based on soluble conducting polyaniline, 385 (1999) 163

Lindgren, A., Emnéus, J., Ruzgas, T., Gorton, L. and Marko-Varga, G., Amperometric detection of phenols using peroxidase-modified graphite electrodes, 347 (1997) 51

Lindgren, A., see Gorton, L., 400 (1999) 91

Lindgren, E.S., see Viksna, A., 353 (1997) 307

Lindino, C.A. and Bulhões, L.O.S., The potentiometric response of chemically modified electrodes, 334 (1996) 317

Lindner, E., see Nagy, G., 377 (1998) 1

Lindquist, S.-E., see Larsson, T., 331 (1996) 207

Lindquist, S.-E., see Tessema, M., 349 (1997) 179

Lindroos, A., see Lill, J.-O., 378 (1999) 273

Lines, A.C., see Ashton, D.S., 306 (1995) 43

Ling Gu, J., see Wang, H., 359 (1998) 39

Ling Jiang, L., see Kurosawa, T., 365 (1998) 249

Ling Tse, O., see Choi, M.M., 378 (1999) 127

Ling, J., see Yongnian, N., 329 (1996) 65

Lingeman, H., see Mank, A.J.G., 315 (1995) 209

Lingeman, H., see Mank, A.J.G., 323 (1996) 1

Lingeman, H., see Steijger, O.M., 320 (1996) 99

Lingeman, H., see van de Merbel, N.C., 303 (1995) 175

Lingeman, H., see Zegers, B.N., 304 (1995) 47

Linnemayr, K., Rizzi, A., Josic, D. and Allmaier, G., Comparison of microscale cleaning procedures for (Glyco) proteins prior to positive ion matrix-assisted laser desorption ionization mass spectrometry, 372 (1998) 187

Lins, V., see Duarte, M.M.M.B., 350 (1997) 353

Linsky, S.M., see van Staden, J.F., 354 (1997) 59

Lin-Xiu, L., see Zhi-Liang, J., 320 (1996) 139

Lionti, I., see Del Carlo, M., 342 (1997) 189

Lip, L.K., see Chao, Y.Z., 314 (1995) 121

Lipka, R., see Oszwałdowski, S., 361 (1998) 177

Lippitsch, M.E., see Mohr, G.J., 360 (1998) 119

Lischer, P., see Berset, J.D., 383 (1999) 263

Lisdat, F., Wollenberger, U., Paeschke, M. and Scheller, F.W., Sensitive catecholamine measurement using a monoenzymatic recycling system, 368 (1998) 233 Lisec, T., see Paeschke, M., 305 (1995) 126

Liss, P.S., see Gibb, S.W., 316 (1995) 291

Lista, A.G., see Palomeque, M.E., 366 (1998) 287

Litani-Barzilai, I. and Schechter, I., Spectroscopic prediction of nonlinear properties by principal component regression, 348 (1997) 345

Litani-Barzilai, I., Sela, I., Bulatov, V., Zilberman, I. and Schechter, I., On-line remote prediction of gasoline properties by combined optical methods, 339 (1997) 193

Little, M.J. and Wentzell, P.D., Evaluation of acoustic emission as a means for carbonate determination, 309 (1995) 283

Little, M.J., Paquette, D.M., Harvey, M.D. and Banks, P.R., Singlelabel fluorescent derivatization of peptides, 339 (1997) 279

Littlejohn, D., see Anderson, P., 327 (1996) 53

Littlejohn, D., see Davidson, C.M., 363 (1998) 45

Littlejohn, D., see Gibson, L.T., 337 (1997) 151

Littlejohn, D., see Gibson, L.T., 337 (1997) 253

Littlejohn, D., see Gibson, L.T., 341 (1997) 1

Littlejohn, D., see Gibson, L.T., 341 (1997) 11

Littlejohn, D., see Sun, F., 364 (1998) 1

Liu, B., see Liu, Z., 392 (1999) 135

Liu, B., Yan, F., Kong, J. and Deng, J., A reagentless amperometric biosensor based on the coimmobilization of horseradish peroxidase and methylene green in a modified zeolite matrix, 386 (1999) 31

Liu, B.f., Liu, L.b. and Cheng, J.k., Separation of thorium, uranium and rare-earth elements with 2-[(2-arsenophenyl)-azo]-1,8-dihydroxy-7-[(2,4,6-tribromophenyl)azo]-naphthalene-3,6-disulfonic acid by capillary electrophoresis, 358 (1998) 157

Liu, C., see Ni, Y., 396 (1999) 221

Liu, C.S., see Zhang, H.R., 357 (1997) 119

Liu, C.Y., Hu, C.C., Chen, J.L. and Liu, K.T., Metallomesogens as stationary phases for the separation of phenols by gas chromatography, 384 (1999) 51

Liu, C.Y., Lee, N.M. and Chen, J.L., γ-Aminobutyrohydroxamate resins as stationary phases of chelation ion chromatography, 369 (1998) 225

Liu, C.-Y., Lee, N.-M. and Wang, T.-H., Chelation ion chromatography as a technique for trace elemental analysis in complex matrix samples, 337 (1997) 173

Liu, D., Chen, W.-C., Yang, R.-H., Shen, G.-L. and Yu, R.-Q., Polymeric membrane phosphate sensitive electrode based on binuclear organotin compound, 338 (1997) 209

Liu, D., Ge, K., Chen, K., Nie, L. and Yao, S., Clinical analysis of urea in human blood by coupling a surface acoustic wave sensor with urease extracted from pumpkin seeds, 307 (1995) 61

Liu, F., see Zhu, Q.Z., 375 (1998) 177

Liu, G.D., see Li, Z.Q., 382 (1999) 165

Liu, H., Cho, B.Y., Strong, R., Krull, I.S., Cohen, S., Chan, K.C. and Issaq, H.J., Derivatization of peptides and small proteins for improved identification and detection in capillary zone electrophoresis (CZE), 400 (1999) 181

Liu, H., Li, H., Ying, T., Sun, K., Qin, Y. and Qi, D., Amperometric biosensor sensitive to glucose and lactose based on co-immobilization of ferrocene, glucose oxidase, β-galactosidase and mutarotase in β-cyclodextrin polymer, 358 (1998) 137

Liu, H., see Qin, W., 357 (1997) 127

Liu, H., see Sun, W., 388 (1999) 103

Liu, H.-L., Cao, X.-W., Xu, R.-J. and Chen, N.-Y., Independent neural network modeling of class analogy for classification pattern recognition and optimization, 342 (1997) 223

Liu, J., see Chen, H., 370 (1998) 151

Liu, J., see Wang, J., 305 (1995) 3

Liu, K., see Jin, W., 347 (1997) 257

Liu, K.T., see Liu, C.Y., 384 (1999) 51

Liu, L.b., see Liu, B.f., 358 (1998) 157

Liu, M., Li, Q.X. and Rechnitz, G.A., Flow injection immunosensing of polycyclic aromatic hydrocarbons with a quartz crystal microbalance, 387 (1999) 29

Liu, Q., see Pu Liu, S., 379 (1999) 53

Liu, S., see Oin, W., 372 (1998) 357

Liu, S.J. and Tubino, M., A thermistor as a sensor in gas phase flow injection analysis, 366 (1998) 5

Liu, S.S., see Fang, Q., 390 (1999) 27

Liu, S.S., see Liu, X.Z., 392 (1999) 273

Liu, W., Wang, Y., Jin, W., Shen, G. and Yu, R., Solvatochromogenic flavone dyes for the detection of water in acetone, 383 (1999) 299

Liu, X., see Jiang, Z., 354 (1997) 359

Liu, X.-j., Li, Y.-z. and Ci, Y.-x., Time-resolved fluorescence studies of the interaction of the Eu<sup>3+</sup> complexes of tetracycline analogues with DNA, 345 (1997) 213

Liu, X.Z. and Fang, Z.L., Sequential-injection system for drugdissolution studies of ibuprofen tablets and sustained-release formulations, 358 (1998) 103

Liu, X.Z., Liu, S.S., Wu, J.F. and Fang, Z.L., Simultaneous monitoring of aspirin, phenacetin and caffeine in compound aspirin tablets using a sequential injection drug-dissolution testing system with partial least squares calibration, 392 (1999) 273

Liu, Y., Qi Ma, C., An Li, K. and Yang Tong, S., Simple and sensitive assay for nucleic acids by use of Rayleigh light scattering technique with rhodamine B, 379 (1999) 39

Liu, Y., see Gong, B., 362 (1998) 247

Liu, Y., see Hsueh, C.C., 397 (1999) 135

Liu, Y., see Pfeiffer, D., 351 (1997) 127

Liu, Y., see Song, W., 394 (1999) 73

Liu, Z., Li, T., Li, J. and Wang, E., Detection of menadione sodium bisulfite (vitamin K<sub>3</sub>) by reversed-phase high performance liquid chromatography with series dual-electrode amperometric detector, 338 (1997) 57

Liu, Z., Liu, B., Zhang, M., Kong, J. and Deng, J., Al<sub>2</sub>O<sub>3</sub> sol-gel derived amperometric biosensor for glucose, 392 (1999) 135

Liu, Z., see Másson, M., 304 (1995) 353

Liu, Z., Zou, H., Ni, J.Y. and Zhang, Y., Open tubular capillary electrochromatography with adsorbed stationary phase, 378 (1999) 73

Liu, Z.-S. and Fang, Z.-L., Combination of flow injection with capillary electrophoresis. Part 2. Chiral separation of intermediate enantiomers in chloramphenicol synthesis, 353 (1997) 199

Liu, Z.-S., see Fang, Z.-L., 346 (1997) 135

Livens, F.R., see Birkett, J.W., 362 (1998) 299

Livens, F.R., see Jones, M.N., 314 (1995) 149

Liwo, A., see Chmurzyński, L., 335 (1996) 147

Liwo, A., see Chmurzyński, L., 338 (1997) 261

Li-Xian, S., Okada, T., Collin, J.-P. and Sugihara, H., PVC membrane lithium-selective electrodes based on oligomethylene-bridged bis-1,10-phenanthroline derivatives, 329 (1996) 57

Lizeng, W., see Dazhong, S., 340 (1997) 55

Llauradó, M., see Torres, J.M., 355 (1997) 283

Llauradó, M., see Torres, J.M., 379 (1999) 135

Llerena, A., see Albertús, F., 355 (1997) 23 Llobet, E., see Brezmes, J., 348 (1997) 503

Llopis, A., see Morales, M.M., 394 (1999) 109

Lloyd, J.R., see Corbisier, P., 387 (1999) 235

Lo Balbo, A., see Dall'Orto, V.C., 336 (1996) 195

Lo Coco, F., Monotti, P., Rizzotti, S. and Ceccon, L., Determination of lead in oil products by derivative potentiometric stripping analysis, 386 (1999) 41

Lo Coco, F., Valentini, C., Novelli, V. and Ceccon, L., Liquid chromatographic determination of 2-furaldehyde and 5-hydroxymethyl-2-furaldehyde in beer, 306 (1995) 57

Lo, A., see Roark, S.E., 307 (1995) 341

Lo, C.H., see Lee, A.W.M., 339 (1997) 123

Lo, S.-C., see Lin, J., 349 (1997) 263

Łobiński, R. and Szpunar, J., Biochemical speciation analysis by hyphenated techniques, 400 (1999) 321

Łobiński, R., see Chassaigne, H., 359 (1998) 227

Lobinski, R., see Gerbersmann, C., 316 (1995) 93

Łobiński, R., see Szpunar, J., 332 (1996) 225

Łobiński, R., see Szpunar, J., 387 (1999) 135
Lobnik, A., Oehme, I., Murkovic, I. and Wolfbeis, O.S., pH optical sensors based on sol–gels: Chemical doping versus covalent immobilization, 367 (1998) 159

Lobnik, A., see Murkovic, I., 334 (1996) 125

Lobo, M.J., Miranda, A.J., López-Fonseca, J.M. and Tuñón, P., Electrocatalytic detection of nicotinamide coenzymes by poly(oaminophenol) - and poly(o-phenylenediamine) -modified carbon paste electrodes, 325 (1996) 33

Lobo-Castañón, M.J., Miranda-Ordieres, A.J. and Tuñón-Blanco, P., A bienzyme-poly-(o-phenylenediamine)-modified carbon paste electrode for the amperometric detection of ℓ-lactate, 346 (1997) 165

Logan, B.K., see Peterson, K.L., 337 (1997) 99

Loginova, L. and Bazilyanskaya, V., Cu<sup>2+</sup>- and Cd<sup>2+</sup>-buffers in water-ethanol media, 315 (1995) 55

Loginova, L.P. and Bazilyanskaya, V.D., Iodide buffer systems for the calibration of iodide-selective electrodes, 307 (1995) 37

Logue, A., see Mi, Y., 397 (1999) 103

Löhn, A., see Hitzmann, B., 313 (1995) 55

Löhn, A., see Hitzmann, B., 348 (1997) 161

Lohnes, M.T., Guy, R.D. and Wentzell, P.D., Window target-testing factor analysis: theory and application to the chromatographic analysis of complex mixtures with multiwavelength fluorescence detection. 389 (1999) 95

Lohse, H., Electrochemical measuring system for determination of surface-active substances in aqueous solutions, 305 (1995) 269

Lohse, M., see Shkinev, V.M., 327 (1996) 167

Lohwithee, S., see Chimpalee, N., 329 (1996) 315

Lohwithee, S., see Chimpalee, N., 331 (1996) 253

Long, D., see Feng, M., 363 (1998) 67

Long, W.F. and Burns, D.H., Optical tomographic reconstruction from diffuse remittance in scattering media using partial least squares estimation, 348 (1997) 553

Long, Y., Li, W., Nie, L. and Yao, S., Preparation and application of chlorpheniramine ion-selective piezoelectric sensor based on selective adsorption, 395 (1999) 33

Long, Y.T., see Chen, H.Y., 382 (1999) 171

Long-Di, L. and Wei-Guo, H., Room temperature phosphorescence properties of dansyl chloride and its derivatives, 312 (1995) 345

Long-Di, L., see Ai-Jun, T., 322 (1996) 91

Longdi, L., Yongli, C., Yu, Z. and Aijun, T., Room-temperature phosphorescence of dansyl chloride solution in the absence of protective medium and its medium effect, 341 (1997) 241

Longy, I., see Basly, J.P., 359 (1998) 107

Lopes da Conceição, A.C., Tena, M.T., Correia dos Santos, M.M., Gonçalves, M.L.S. and Luque de Castro, M.D., Flow injectionassisted optical sensor for determination of iron(II) and iron(III) in natural water, 343 (1997) 191

Lopes, T.I., see Lima, J.L., 366 (1998) 187

Lopes, T.I.M.S., Rangel, A.O.S.S., Lima, J.L.F.C. and Montenegro, M.C.B.S.M., Construction and use of a tubular picrate ionselective electrode for reducing sugar determination in Port wine by flow-injection analysis, 308 (1995) 122

López Fernández, J.M., Checa, F., Ríos, A. and Valcárcel, M., A computer program for ranking analytical methods according to their fitness for purpose, 360 (1998) 215

López Grío, S., Baeza Baeza, J.J. and García Alvarez-Coque, M.C., Modelling of the elution behaviour in hybrid micellar eluents with different organic modifiers, 381 (1999) 275

Lopez Paz, J.L., see Wang, J., 375 (1998) 197

López, F.J., see Beltran, J., 356 (1997) 125

López, F.J., see Hernández, F., 374 (1998) 215

Lopez, F.S., see Cabanillas, A.G., 302 (1995) 9

López, F.S., see Espinosa-Mansilla, A., 320 (1996) 125

López, M.A., see Palacios, M.A., 340 (1997) 209

López, M.A., see Parellada, J., 362 (1998) 47

López, M.d.C., see Sánchez-Pedreño, C., 315 (1995) 63

López, P.F., see Murillo Pulgarin, J.A., 326 (1996) 117

López, R., see Fiol, S., 385 (1999) 443

López, T.D., see Coedo, A.G., 315 (1995) 331

López-Alvarado, P., see Verdasco, G., 303 (1995) 73

López-Anreus, E., Garrigues, S. and de la Guardia, M., Vapour generation Fourier transform infrared spectrometry. A new analytical technique, 308 (1995) 28

López-Anreus, E., Garrigues, S. and de la Guardia, M., Vapour generation-Fourier transform infrared spectrometric determination of benzene, toluene and methyl tert.-butyl ether in gasolines,

López-Cueto, G., Santiago, J.M., Martin-Carratalá, M.L., Cueto-Rejón, A.F. and Grané, N., Kinetic catalytic analysis: Extended theory of continuous addition of catalyst to a reference solution for nonequal reference and sample initial signals, 335 (1996) 185

López-de-Alba, P.L., see Cabanillas, A.G., 302 (1995) 9

López-de-Alba, P.L., see López-Martinez, L., 340 (1997) 241

López-de-Alba, P.L., Wróbel-Kaczmarczyk, K., Wróbel, K., López-Martinez, L. and Hernández, J.A., Spectrophotometric determination of Allura Red (R40) in soft drink powders using the universal calibration matrix for partial least squares multivariate method, 330 (1996) 19

López-Fonseca, J.M., see Lobo, M.J., 325 (1996) 33

López-García, I., Sánchez-Merlos, M. and Hernández-Córdoba, M., Use of hydrofluoric acid to decrease the background signal caused by sodium chloride in electrothermal atomic absorption spectrometry, 396 (1999) 279

López-García, I., see Campillo, N., 390 (1999) 207

López-García, I., see Viñas, P., 356 (1997) 267

López-García, I., Sánchez-Merlos, M. and Hernández-Córdoba, M., Slurry sampling for the determination of lead, cadmium and thallium in soils and sediments by electrothermal atomic absorption spectrometry with fast-heating programs, 328 (1996) 19

López-García, I., Viñas, P. and Hernández-Córdoba, M., Automatic calibration in continuous flow analysis, 327 (1996) 83

López-Guzmán, J.E., see Agüí, L., 385 (1999) 241

López-Martinez, L., see López-de-Alba, P.L., 330 (1996) 19

López-Martinez, L., Vázquez, F.J.L. and López-de-Alba, P.L., Simple spectrophotometric determination of tinidazole in formulation and serum, 340 (1997) 241

López-Sánchez, J.F., see Pardo, P., 376 (1998) 183

López-Sánchez, J.F., see Sahuquillo, A., 382 (1999) 317

Lorber, A., Karpas, Z. and Halicz, L., Flow injection method for determination of uranium in urine and serum by inductively coupled plasma mass spectrometry, 334 (1996) 295

Lorenti, G., see Mazzei, F., 316 (1995) 79

Lorenti, G., see Mazzei, F., 328 (1996) 41

Lorenzo, E., Sánchez, L., Pariente, F., Tirado, J. and Abruña, H.D., Thermodynamics and kinetics of adsorption and electrocatalysis of NADH oxidation with a self-assembling quinone derivative, 309 (1995) 79

Lorenzo, E., see Abad, J.M., 368 (1998) 183

Lorenzo, E., see La Rosa, C., 308 (1995) 129

Lorenzo, E., see Tobalina, F., 358 (1998) 15

Losada, J., Cuadrado, I., Morán, M., Casado, C.M., Alonso, B. and Barranco, M., Ferrocenyl silicon-based dendrimers as mediators in amperometric biosensors, 338 (1997) 191

Losada, J., see Garcia-Armada, M.P., 316 (1995) 47

Löster, K., see Pock, K., 372 (1998) 219

Lottici, S., see Fuoco, R., 346 (1997) 81

Louis, D., Kohlmann, M. and Wallach, J., Spectrophotometric assay for amidolytic activity of alkaline protease from Pseudomonas aeruginosa, 345 (1997) 219

Louise Armstrong, H.E., Corns, W.T., Stockwell, P.B., O'Connor, G., Ebdon, L. and Hywel Evans, E., Comparison of AFS and ICP-MS detection coupled with gas chromatography for the determination of methylmercury in marine samples, 390 (1999) 245

Lou-Jun, G., see Zhi-Qi, Z., 370 (1998) 59

Loukas, Y.L., Experimental studies for screening the factors that influence the effectiveness of new multicomponent and protective liposomes, 361 (1998) 241

Louwerse (Ad), D.J., see Bijlsma, S., 376 (1998) 339

Louwerse, D.J., Smit, H.C. and Kaljurand, M., Monitoring timevarying concentrations in sample streams by multiple input chromatography, 346 (1997) 285

Lovchinov, V., see Nedeltcheva, T., 312 (1995) 227

Lovchinov, V., see Nedeltcheva, T., 336 (1996) 223

Love, L.J.C., see Jing-Jau, T., 344 (1997) 137

Love, M.D. and Pardue, H.L., Systematic comparison of dataprocessing options for kinetic-based, single-component determinations of noncatalysts: Effects of random noise, 326 (1996)

Lövgren, T., see Härmä, H., 387 (1999) 11

Lovillo, J., see Diaz, A.N., 321 (1996) 213

Lovillo, J., see García Sánchez, F., 328 (1996) 73

Lovrić, M., see Komorsky-Lovrić, Š., 305 (1995) 248

Lovrić, M., see Mirčeski, V., 386 (1999) 47

Lowe, R.D., see Colcombe, S.M., 356 (1997) 277

Lox, C.D., see Simoni, J., 313 (1995) 1

Lozano, J., see Ruisánchez, I., 348 (1997) 113

Lu, C.-J. and Shih, J.-S., Detection of polar organic vapours with piezoelectric crystals coated with crown ethers, 306 (1995) 129

Lu, F., see Wang, J., 305 (1995) 3

Lu, G.N., see Sedjil, M., 377 (1998) 179

Lu, H. and Rutan, S., Solvatochromic studies of solvation effects in reversed-phase liquid chromatography with addition of 1-propanol, 388 (1999) 345

Lu, J., Qin, W., Zhang, Z., Feng, M. and Wang, Y., A flow-injection type chemiluminescence-based sensor for cyanide, 304 (1995)

Lu, J., see Hong Chan, W., 370 (1998) 259

Lu, J., see Shi, G., 391 (1999) 307

Lu, J., see Wang, J., 354 (1997) 275

Lu, J., see Wang, J., 361 (1998) 85

Lu, J., see Wang, J., 385 (1999) 429

Lu, J., see Wang, J., 396 (1999) 33 Lu, J., see Wei, S., 322 (1996) 167

Lu, J., Shoulian, J., Yunbao, X. and Jingou, Study and application of a novel probe using twisted intramolecular charge transfer fluorescence, 349 (1997) 17

Lu, J.Z., see Hong Chan, W., 361 (1998) 55

Lu, X., see Chang-Yu, H., 318 (1995) 117

Lu, X., see Hua, L., 316 (1995) 39

Lu, X., see Hua, L., 321 (1996) 97

Lu, X., see Zhao, T., 358 (1998) 263

Lu, Y., see Miao, H., 358 (1998) 297

Lu, Y., see Yang, R., 314 (1995) 95

Lubert, K.-H., Wagner, M. and Olk, R.-M., Voltammetric characterisation of an insoluble tetrathiafulvalene derivative by means of modified carbon paste electrode, 336 (1996) 77

Lubrano, G.J., see Minunni, M., 325 (1996) 169

Luc Massart, D., see Kuttatharmmakul, S., 391 (1999) 203

Luca, G.C., Reis, B.F., Zagatto, E.A., Montenegro, M.C.v.B., Araújo, A.N. and Lima, J.L.F., Development of a potentiometric procedure for determination of glycerol and 2,3-butanediol in wine by sequential injection analysis, 366 (1998) 193

Lucano, C., see Taddia, M., 375 (1998) 285

Luckay, R.C., see Cukrowski, I., 319 (1996) 39

Luckay, R.C., see Cukrowski, I., 372 (1998) 323

Lucy, C.A. and Hausermann, B.P., Co-current chromatography: a new mode of liquid-liquid chromatography, 307 (1995) 173

Luff, B.J., see Mouvet, C., 338 (1997) 109

Luge, S. and Broekaert, J.A.C., Use of a low power, high frequency stabilized capacitive plasma combined with graphite furnace vaporization for the atomic emission spectrometric analysis of serum samples, 332 (1996) 193

Lugtenberg, R.J., Egberink, R.J., Engbersen, J.F. and Reinhoudt, D.N., Polysiloxane based CHEMFETs for selective detection of Ca2+ ions, 357 (1997) 225

Lugtenberg, R.J.W., Brzozka, Z., Casnati, A., Ungaro, R., Engbersen, J.F.J. and Reinhoudt, D.N., Cesium-selective chemically modified field effect transistors with calix[4]arene-crown-6 derivatives, 310 (1995) 263

Lugtenberg, R.J.W., see Antonisse, M.M.G., 332 (1996) 123

Lui, J., Tan, M., Liang, C. and Khoo, B.Y., Immobilized enzyme modulator microassay (IEMMA) for the detection of pesticide in fresh produce, 329 (1996) 297

Luinge, H.J., Langoor, M.H. and van der Maas, J.H., Linear and nonlinear modelling techniques for the investigation of spectrumstructure relationships, 348 (1997) 471

Luinge, H.J., Leussink, E.D. and Visser, T., Trace-level identity confirmation from infrared spectra by library searching and artificial neural networks, 345 (1997) 173

Luis Pérez Pavón, J., see González Martín, Y., 384 (1999) 83

Luis Vilchez, J., El-Khattabi, R., Blanc, R. and Navalón, A., Photochemical-fluorimetric method for the determination of the insecticide imidacloprid in water samples, 371 (1998) 247

Lukács, F., see Laurenczy, G., 359 (1998) 275

Lukaszewski, Z., see Szymanski, A., 305 (1995) 256

Lukaszewski, Z., see Szymanski, A., 311 (1995) 31

Lukaszewski, Z., see Wyrwas, B., 331 (1996) 131

Lukaszweski, Z., Zembrzuski, W. and Piela, A., Direct determination of ultratraces of thallium in water by flow-injection-differential-pulse anodic stripping voltammetry, 318 (1996) 159

Lulić, S., see Grahek, Z., 399 (1999) 237

Lumbreras, J.M., see Aller, A.J., 330 (1996) 89

Lumini, T., see Lederer, M., 371 (1998) 279

Lunar, L., see Carreto, M.L., 349 (1997) 33

Lunar, M.L., Rubio, S., Pérez-Bendito, D., Carreto, M.L. and McLeod, C.W., Hexadecylpyridinium chloride micelles for the simultaneous kinetic determination of cysteine and cystine by their induction of the iodine-azide reaction, 337 (1997) 341

Lundebye, A.-K., Vedel, G.R., Christensen, A.M.K., Kristiansen, K., Hunter, D. and Depledge, M.H., Improved quantification of stress proteins by western blotting, 311 (1995) 109

Lundström, I., see Eklöv, T., 353 (1997) 291

Lundström, I., see Eklöv, T., 381 (1999) 221

Lundström, I., see Lidén, H., 361 (1998) 223

Lundström, I., see Winquist, F., 357 (1997) 21

Lunsford, S.K., see Mark, Jr., H.B., 385 (1999) 281

Lunte, C.E., see Song, Y., 379 (1999) 251

Lunte, C.E., see Song, Y., 400 (1999) 143

Lunte, C.E., see Yeping, Z., 316 (1995) 403

Lunte, C.E., see Zhou, J., 379 (1999) 307

Lunte, S.M., see Rose, M.J., 394 (1999) 299

Lunte, S.M., see Zhou, J., 379 (1999) 307

Luo, D., see Wang, J., 332 (1996) 139

Luo, D., see Wang, J., 337 (1997) 41

Luo, D., see Wang, J., 347 (1997) 1

Luo, D., see Wang, J., 354 (1997) 275

Luo, G., see Rao, Y., 396 (1999) 273

113

Luo, J., see Zhao, Y.D., 388 (1999) 93

Luo, M., see Xian, Y., 381 (1999) 191

Luo, S.K., see Wang, C.F., 389 (1999) 257

Luo, Y., see Wang, T., 306 (1995) 249

Luong, J.H.T. and Thatipamala, R., Kinetics and performance of a mediated biosensor for hypoxanthine using deflavo xanthine oxidase, 319 (1996) 325

Luong, J.H.T., see Bouvrette, P., 335 (1996) 169

Luong, J.H.T., see Brown, R.S., 310 (1995) 419

Luong, J.H.T., see Male, K.B., 351 (1997) 159

Luong, J.H.T., see Shishan, Z., 327 (1996) 235

Luque de Castro, M.D. and Fernández-Romero, J.M., Development of an optical flow-through biosensor for the determination of sulphite in environmental samples, 311 (1995) 281

Luque de Castro, M.D. and García-Ayuso, L.E., Soxhlet extraction of solid materials: an outdated technique with a promising innovative future, 369 (1998) 1

Luque de Castro, M.D. and Velasco-arjona, A., Towards the most rational use of robotics within the overall analytical process, 384 (1999) 117

Luque de Castro, M.D., see Amador-Hernández, J., 390 (1999) 163

Luque de Castro, M.D., see Bryce, D.W., 308 (1995) 96

Luque de Castro, M.D., see García-Ayuso, L.E., 382 (1999) 309

Luque de Castro, M.D., see Jiménez-Carmona, M.M., 358 (1998) 1 Luque de Castro, M.D., see Jiménez-Carmona, M.M., 395 (1999)

Luque de Castro, M.D., see Lopes da Conceição, A.C., 343 (1997)

Luque de Castro, M.D., see Mataix, E., 381 (1999) 23

Luque de Castro, M.D., see Papaefstathiou, I., 354 (1997) 135

Luque de Castro, M.D., see Sánchez-Cabezudo, M., 308 (1995) 159

Luque de Castro, M.D., see Sulistyarti, H., 390 (1999) 133

Luque, M., Ríos, A. and Valcárcel, M., A poly(vinyl choloride) graphite composite electrode for flow-injection amperometric determination of antioxidants, 395 (1999) 217

Luque, M., see Albertús, F., 355 (1997) 23

Luque-Pérez, E., Ríos, A. and Valcárcel, M., Flow-injection spectrophotometric determination of citric acid in beverages based on a photochemical reaction, 366 (1998) 231

Luque-Pérez, E., Ríos, A., Valcárcel, M., Danielsson, L.-G. and Ingman, F., Analysis of solid samples using supported liquid membranes: a method for the evaluation of the release of nicotine from Swedish snuff, 387 (1999) 155

Lush, R.M., see Simmons, B.R., 339 (1997) 91

Lüth, H., see Thust, M., 323 (1996) 115

Lüthi-Peng, Q. and Puhan, Z., Determination of protein and casein in milk by fourth derivative UV spectrophotometry, 393 (1999) 227

Lutz, M., Burestedt, E., Emnéus, J., Lidén, H., Gobhadi, S., Gorton, L. and Marko-Varga, G., Effects of different additives on a tyrosinase based carbon paste electrode, 305 (1995) 8

Lutze, O., see Högg, G., 335 (1996) 103

Luyben, K.C.A.M., see Geerdink, M.J., 315 (1995) 159

Luypaert, K., see Heyden, Y.V., 312 (1995) 245

Lvin, S.J., see MacDonald, B.C., 338 (1997) 155

Lvova, L., see Legin, A., 385 (1999) 131

Lvovich, V. and Scheeline, A., Simultaneous superoxide and hydrogen peroxide detection in peroxidase/NADH oscillator, 354 (1997) 315

Lyazidi, S.A., see Sbai, M., 303 (1995) 47

Lyberopulu, T., see Ochsenkühn-Petropulu, M., 315 (1995) 231

Lyberopulu, T., see Ochsenkühn-Petropulu, M., 319 (1996) 249

Lyn, D.A., Jafvert, C.T., Limaye, A. and Kapoor, V., Concentration non-uniformities and averages in flow-through spectrophotometric measurements, 363 (1998) 171

Lynggaard Jensen, A., see Carlsson, K., 354 (1997) 35

Lyvén, B., Hassellöv, M., Haraldsson, C. and Turner, D.R., Optimisation of on-channel preconcentration in flow field-flow fractionation for the determination of size distributions of low molecular weight colloidal material in natural waters, 357 (1997) 187

## M

M.C.S. Magalhães, J., Céspedes, F., Alegret, S. and A.S.C. Machado, A., Study of the temperature behaviour of all-solidstate nonactin ammonium electrodes with PVC membrane applied to graphite-epoxy supports of varied composition, 355 (1997) 241

Ma, D., Okamoto, Y., Kumamaru, T. and Iwamoto, E., Determination of gallium by graphite furnace atomic absorption spectrometry with combined use of a tungsten-coated L'vov platform tube and a chemical modification technique, 390 (1999) 201

Ma, H., Jarzak, U. and Thiemann, W., Synthesis and spectroscopic properties of new luminol-linked calixarene derivatives, 362 (1998) 121

Ma, H.-M., see Ming, S., 338 (1997) 103

Ma, L., see Enju, W., 334 (1996) 139

Ma, L., see Monson, S.J., 373 (1998) 153

Ma, L., see Wang, E., 357 (1997) 85

Ma, L.R., see Li, Y.G., 382 (1999) 277

Ma, R. and Adams, F., Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for nickel, cobalt and manganese determination by atomic absorption spectrometry, 317 (1995) 215

Ma, R., Van Mol, W. and Adams, F., Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for the determination of zinc by flame atomic absorption spectrometry, 309 (1995) 395

Ma, Y. and Ito, Y., Recent advances in peptide separation by countercurrent chromatography, 352 (1997) 411

Ma, Z., Zhao, B. and Yuan, Z., Application of electrochemical and spin trapping techniques in the investigation of hydroxyl radicals, 389 (1999) 213

Mabrouk, P.A., First direct interfacial electron transfer between a biomolecule and a solid electrode in non-aqueous media: direct electrochemistry of microperoxidase-11 at glassy carbon in dimethyl sulfoxide solution, 307 (1995) 245

Macagnano, A., see Di Natale, C., 384 (1999) 249

Macaskie, L.E., see Yong, P., 329 (1996) 173

Maccà, C. and Wang, J., Experimental procedures for the determination of amperometric selectivity coefficients, 303 (1995) 265Maccà, C., Determination of potentiometric selectivity, 321 (1996) 1

MacCraith, B.D., see Regan, F., 334 (1996) 85

MacDonald, B.C., Lvin, S.J. and Patterson, H., Correction of fluorescence inner filter effects and the partitioning of pyrene to dissolved organic carbon, 338 (1997) 155

MacDonald, B.F., see Dempster, M.A., 310 (1995) 43

MacDonald, D., see Wang, J., 361 (1998) 85

Macedo, T.R.A., see Oliveira Brett, A.M., 385 (1999) 401

Macey, D.J., see Rahman, I.H.A, 393 (1999) 235

Macha, S.F., McCarley, T.D. and Limbach, P.A., Influence of ionization energy on charge-transfer ionization in matrix-assisted laser desorption/ionization mass spectrometry, 397 (1999) 235

Machado, A.A., see Álvares-Ribeiro, L.M., 355 (1997) 195

Machado, A.A.S.C., see da Silva, J.C.G.E., 318 (1996) 365

Machado, A.A.S.C., see da Silva, J.C.G.E., 349 (1997) 23

Machado, A.A.S.C., see Esteves da Silva, J.C.G., 333 (1996) 71 Machado, A.A.S.C., see Magalhães, J.M.C.S., 355 (1997) 241

Machado, A.A.S.C., see Magainaes, J.M.C.S., 355 Machado, A.A.S.C., see Rey, F., 304 (1995) 375

Machado, E.L., B. da Rosa, M., M. Flores, E.M., Paniz, J.N. and F. Martins, A., Spectrophotometric determination of ozone in ozonized air currents with chemical gas-liquid transfer using a microreactor, 380 (1999) 93

Macher, C.L., Gloor, A. and Pretsch, E., Automatic generation of hypermedia, 348 (1997) 465

Machtalère, G., J., X., F., H., Kolodziejczyk, H. and Rosset, R., Characterization of engine motor oils dispersants of the polybutenylsuccinimide type by saponification, methylation and size exclusion chromatography, 322 (1996) 31

Machtalère, G., see Hui, F., 339 (1997) 109

Machtalere, G., see Sassiat, P., 306 (1995) 73

Maciag, C., see Mouvet, C., 311 (1995) 331

Maciag, C., see Mouvet, C., 338 (1997) 109

Mack, J., see Leipert, D., 392 (1999) 213

MacKenzie, B.A., see Mastin, J.P., 376 (1998) 119

MacKenzie, B.A., see Striley, C.A.F., 399 (1999) 109

Mackenzie, K., see Kopinke, F.D., 355 (1997) 101

MacNamara, E., Hou, T., Fisher, G., Williams, S. and Raftery, D., Multiplex sample NMR: an approach to high-throughput NMR using a parallel coil probe, 397 (1999) 9

MacNamara, E., see Hou, T., 400 (1999) 297

Macpherson, J.V., see Barker, A.L., 385 (1999) 223

Mădăras, M.B., Popescu, I.C., Ufer, S. and Buck, R.P., Microfabricated amperometric creatine and creatinine biosensors, 319 (1996) 335

Madaras, M.B., see Renneberg, R., 325 (1996) 161

Madden, J.E., Cardwell, T.J., Cattrall, R.W. and Deady, L.W., Nafion-based optode for the detection of metal ions in flow analysis, 319 (1996) 127

Maddock, J., see Goodacre, R., 348 (1997) 511

Madichie, C., Greenway, G.M. and McCreedy, T., The effects of surfactants on the analysis of organic pollutants in natural waters, 392 (1999) 39

Madrid, Y., see Pérez-Corona, T., 345 (1997) 249

Maeda, K., see Yoshida, Y., 373 (1998) 213

Maeda, K., see Yoshida, Y., 374 (1998) 269

Maeda, M., see Ito, K., 382 (1999) 245

Maeda, M., see Katayama, Y., 365 (1998) 159

Maeda, M., see Kawakami, M., 362 (1998) 177

Maeda, M., see Kokado, A., 337 (1997) 335

Maeda, M., see Lin, J.-M., 339 (1997) 139

Maeda, M., see Murakami, S., 361 (1998) 19

Maeda, M., see Ohkuma, H., 395 (1999) 265

Maeda, M., see Sasamoto, H., 306 (1995) 161

Maeda, M., see Sasamoto, H., 309 (1995) 221

Maeda, M., see Sasamoto, H., 310 (1995) 347 Maeda, M., see Umeno, D., 365 (1998) 101

Maeder, M., Molloy, K.J. and Schumacher, M.M., Analysis of nonisothermal kinetic measurements, 337 (1997) 73

Maeder, M., see Dyson, R.M., 353 (1997) 381

Maekawa, K., see Tanimoto, T., 365 (1998) 285

Maes, I.I., see Yperman, J., 395 (1999) 143

Mafatle, T. and Nyokong, T., Use of cobalt(II) phthalocyanine to improve the sensitivity and stability of glassy carbon electrodes for the detection of cresols, chlorophenols and phenol, 354 (1997) 307

Magee, J.T., see Goodacre, R., 348 (1997) 511

Magi, E. and Ianni, C., Determination of tributyltin in marine environment by means of liquid chromatography mass spectrometry with a particle beam interface, 359 (1998) 237

Magi, E., see Baffi, F., 306 (1995) 149

Magi, E., see Baffi, F., 360 (1998) 27

Magi, E., see Grotti, M., 327 (1996) 47

Magno, F. and Lavagnini, I., Ultramicroelectrodes in kinetic investigations supported by simulation. A review with some additional examples, 305 (1995) 96

Magnuson, M.L., Determination of bromate at parts-per-trillion levels by gas chromatography-mass spectrometry with negative chemical ionization, 377 (1998) 53

Magoński, J., Conjugation and proton exchange equilibria: an electrometric method for determination of heteroconjugation constants in solvents of weak proton donating and weak proton accepting properties, 384 (1999) 27

Magoński, J., Korzeniewski, K. and Broniszewska, B., Experimental evidence that hydroxyethylcarbamic acid is not a major product of the reaction between hydroxyethylamine and CO<sub>2</sub> in the presence of water, 356 (1997) 93

Maguire, R.J., see Y., K.C., 320 (1996) 165

Mahedero, M.C., see Aaron, J.J., 314 (1995) 45

Maher, W. and Woo, L., Procedures for the storage and digestion of natural waters for the determination of filterable reactive phosphorus, total filterable phosphorus and total phosphorus, 375 (1998) 5

Maher, W., see Deaker, M., 350 (1997) 287

Maher, W., see Drummond, L., 302 (1995) 69

Maher, W., see Woo, L., 315 (1995) 123

Mahmoud, M.E., Selective solid phase extraction of mercury(II) by silica gel-immobilized-dithiocarbamate derivatives, 398 (1999) 297

Mahmoud, W.H., see Hassan, S.S., 378 (1999) 299

Mahmoud, W.H., see Hassan, S.S.M., 332 (1996) 39

Mahn, J., see Wuske, T., 359 (1998) 321

Mahon, P.J., see Bond, A.M., 345 (1997) 67

Mailley, P., see Coche-Guerente, L., 311 (1995) 23

Maines, A., Ashworth, D. and Vadgama, P., Diffusion restricting outer membranes for greatly extended linearity measurements with glucose oxidase enzyme electrodes, 333 (1996) 223

Majcen, N., Rius, F.X. and Zupan, J., Linear and non-linear multivariate analysis in the quality control of industrial titanium dioxide white pigment, 348 (1997) 87

Makarov, A., see Szpunar, J., 387 (1999) 135

Makarovska, Y.N., see Eksperiandova, L.P., 371 (1998) 105

Makitsuru, K., see Watanabe, T., 386 (1999) 69

Makote, R. and M. Collinson, M., Organically modified silicate films for stable pH sensors, 394 (1999) 195

Makovskaya, V., Dean, J.R., Tomlinson, W.R. and Comber, M., Octanol-water partition coefficients of substituted phenols and their correlation with molecular descriptors, 315 (1995) 193

Makovskaya, V., Dean, J.R., Tomlinson, W.R., Hitchen, S.M. and Comber, M., Determination of octanol-water partition coefficients using gradient liquid chromatography, 315 (1995) 183

Makower, A., Barmin, A., Morzunova, T., Eremenko, A., Kurochkin, I., Bier, F. and Scheller, F., Affinity enzymometric assay for detection of organophosphorus compounds, 357 (1997) 13

Makower, A., see Bier, F.F., 328 (1996) 27

Makower, A., see Eremenko, A.V., 358 (1998) 5

Makower, A., see Ghindilis, A.L., 304 (1995) 25

Makower, A., see Streffer, K., 362 (1998) 81

Maksimova, I.M., see Zolotov, Y.A., 308 (1995) 378

Malakhova, N.A., see Brainina, K.Z., 349 (1997) 85

Malan, D., see van Staden, J.F., 350 (1997) 37

Malcus, F., Djane, N.-K., Mathiasson, L. and Johansson, G., Automated trace enrichment and determination of metals using a combination of supported liquid membrane for sample pretreatment and graphite furnace atomic absorption spectrometry for the determination, 327 (1996) 295

Malcus, F., see Djane, N.-K., 316 (1995) 305

Male, K.B., Gartu, P.O., Kamen, A.A. and Luong, J.H.T., A flowinjection (FI) mediated biosensor for on-line monitoring of lactate in mammalian cell culture, 351 (1997) 159

Maleki, N., Ramezani, Z. and Kaabi, H., Solid based titrimetry, 318 (1996) 373

Maleki, N., see Haghighi, B., 357 (1997) 151

Maleki, N., see Safavi, A., 335 (1996) 275

Malinowska, E., Manzoni, A. and Meyerhoff, M.E., Potentiometric response of magnesium-selective membrane electrode in the presence of nonionic surfactants, 382 (1999) 265

Malinski, T., see Mesároš, Š., 339 (1997) 265

Malinski, T., see Mesároš, S., 358 (1998) 27

Malitesta, C., see De Benedetto, G.E., 389 (1999) 197

Málková, Z., Nitsch, K. and Novák, J., Determination of oxidic impurities in some lead halides, 355 (1997) 171

Mallet, Y., see Wu, W., 329 (1996) 257

Malyszko, E., see Malyszko, J., 376 (1998) 357

Malyszko, J., Malyszko, E., Rutkowska-Ferchichi, E. and Kaczor, M., Kinetics of the electrochemical bromination of some unsaturated fatty acids by the rotating ring-disc electrode technique, 376 (1998) 357

Mana, H. and Spohn, U., Selective flow injection procedures for the determination of nitrogen containing analytes by gasdialyticfluorimetric detection of enzymatically generated ammonia, 325 (1996) 93

Manabe, Y., see Hisamoto, H., 342 (1997) 31

Manchanda, V.K., Mohapatra, P.K. and Veeraraghavan, R., 3-Phenyl-4-benzoyl-5-isoxazolone: A promising chelate extractant for actinide separation from acidic nuclear waste solutions, 320 (1996) 151

Manclús, J.J. and Montoya, A., Development of immunoassays for the analysis of chlorpyrifos and its major metabolite 3,5,6trichloro-2-pyridinol in the aquatic environment, 311 (1995) 341

Manclús, J.J., see González-Martínez, M.A., 392 (1999) 113

Mandal, R., L.R. Sekaly, A., Murimboh, J., Hassan, N.M., Chakrabarti, C.L., Back, M.H., Grégoire, D.C. and Schroeder, W.H., Effect of the competition of copper and cobalt on the lability of Ni(II)-organic ligand complexes, Part II: in freshwaters (Rideau River surface waters), 395 (1999) 323

Mandal, R., Sekaly, A.L., Murimboh, J., Hassan, N.M., Chakrabarti, C.L., Back, M.H., Grégoire, D.C. and Schroeder, W.H., Effect of the competition of copper and cobalt on the lability of Ni(II) organic ligand complexes. Part I. In model solutions containing Ni(II) and a well-characterized fulvic acid, 395 (1999) 309

Mandenius, C.F., see Lidén, H., 361 (1998) 223

Mangia, A., see Careri, M., 386 (1999) 169

Maniasso, N. and Zagatto, E.A., Flow-injection spectrophotometric catalytic determination of manganese in plants exploiting the aerial oxidation of diphenyl carbazone, 366 (1998) 87

Maniasso, N., see Sicilia, D., 392 (1999) 29

Maniasso, N., Zagatto, E.A.G. and Santelli, R.E., A new approach for compensating concentration gradients in flow analysis, 331 (1996) 17

Manita, H., see Sasamoto, H., 309 (1995) 221

Mank, A.J., see Gooijer, C., 400 (1999) 281

Mank, A.J.G., Beekman, M.C., Velthorst, N.H., Brinkman, U.A.T., Lingeman, H. and Gooijer, C., Column liquid chromatography with diode laser-induced fluorescence detection of carboxylic acids after pre-column derivatisation, 315 (1995) 209

Mank, A.J.G., Larsen, O., Lingeman, H., Gooijer, C., Brinkman, U.A.T. and Velthorst, N.H., The analytical potential of diode laser-based intracavity absorption detection in column liquid chromatography, 323 (1996) 1

Mank, A.J.G., see Nuijens, M.J., 311 (1995) 47

Manninen, P.K., see Pantsar-Kallio, M., 360 (1998) 161

Manninen, P.K.G., see Pantsar-Kallio, M., 314 (1995) 67

Manninen, P.K.G., see Pantsar-Kallio, M., 318 (1996) 335

Manns, A., see Wuske, T., 359 (1998) 321

Mano, T., see Kitamura, K., 304 (1995) 101

Manoochehri, F., Kärhä, P., Palva, L., Toivanen, P., Haapalinna, A. and Ikonen, E., Characterisation of optical detectors using highaccuracy instruments, 380 (1999) 327

Manoochehri, F., see Haapalinna, A., 380 (1999) 317

Manriquez, J., Bravo, J.L., Gutierrez-Granados, S., Sucar Succar, S., Bied-Charreton, C., Alatorre Ordaz, A. and Bedioui, F., Electrocatalysis of the oxidation of alcohol and phenol derivative pollutants at vitreous carbon electrode coated by nickel macrocyclic complex-based films, 378 (1999) 159

Mansoori, B.A., Johnston, M.V. and Wexler, A.S., Laser desorption ionization of size resolved liquid microdroplets, 359 (1998) 185 Mansoori, B.A., Johnston, M.V. and Wexler, A.S., Erratum to "Laser desorption ionization of size resolved liquid microdroplets", 390 (1999) 275

Mantis, A.I., see Botsoglou, N.A., 354 (1997) 115

Mantis, A.I., see Fletouris, D.J., 345 (1997) 111

Mantoura, R. Fauzi C., see Bowie, A.R., 361 (1998) 189

Mantoura, R. Fauzi C., see Price, D., 371 (1998) 205

Mantoura, R. Fauzi C., see Price, D., 377 (1998) 145 Mantoura, R.F.C., see Gibb, S.W., 316 (1995) 291

Mantoura, R.F.C., see Karamfilov, V.K., 335 (1996) 51

Manuel Costa, J., see Rodríguez-Fernández, J., 398 (1999) 23

Manuel Costa-Fernández, J., see San Vicente de la Riva, B., 395 (1999)1

Mànuel, A., see Olivé, J., 306 (1995) 285

Mánuel-Vez, M.P., Moreno, C., González, D.J. and García-Vargas, M., Direct fluorimetric determination of dissolved aluminum in seawater at nanomolar levels, 355 (1997) 157

Manz, A., see Dempsey, E., 346 (1997) 341

Manzano, T., see de Maria, C.G., 309 (1995) 241

Manzoni, A., see Malinowska, E., 382 (1999) 265

Mao, B.W., see Zhao, Y.D., 388 (1999) 93

Mao, L., see Shi, G., 386 (1999) 123

Mao, L.Y., see Li, R., 363 (1998) 295

Mao, Q., see Ito, K., 362 (1998) 241

Mao, X., see Chen, H., 370 (1998) 151 Mao, X., see Li, C., 374 (1998) 93

Maquieira, A., see Angel González-Martínez, M., 386 (1999) 201

Maquieira, A., see Gascón, J., 347 (1997) 149

Maquieira, A., see González-Martinez, M.A., 347 (1997) 199

Maquieira, A., see González-Martínez, M.A., 392 (1999) 113

Maquieira, A., see Morais, S., 353 (1997) 245

Maquieira, A., see Penalva, J., 387 (1999) 227

María Moreda, J., see Arranz, A., 389 (1999) 225

María Santiuste, J., Temperature effect on the characteristic solutesolvent retention interactions, calculated with Abraham's solvation model, for 16 GLC stationary phases, 377 (1998) 71

Marazuela, M.D. and Moreno-Bondi, M.C., Determination of choline-containing phospholipids in serum with a fiber-optic biosensor, 374 (1998) 19

Marbán, G., see García-Calzada, M., 380 (1999) 39

Marcano, L., see Tahán, J.E., 317 (1995) 311

Marcé, R.M., see Aguilar, C., 386 (1999) 237

March, J.G., Simonet, B.M., Grases, F. and Salvador, A., Indirect determination of phytic acid in urine, 367 (1998) 63

Marchant, R., see Farry, L., 349 (1997) 221

Marchante-Gayón, J.M., Muñiz, C.S., Alonso, J.I.G. and Sanz-Medel, A., Multielemental trace analysis of biological materials using double focusing inductively coupled plasma mass spectrometry detection, 400 (1999) 307

Marchese, R., see Casella, I.G., 311 (1995) 199

Marchevsky, E., see Vicente, O., 366 (1998) 201

Marco, M.-P., Chiron, S., Gascón, J., Hammock, B.D. and Barceló, D., Validation of two immunoassay methods for environmental monitoring of carbaryl and 1-naphthol in ground water samples, 311 (1995) 319

Marco, M.-P., see Ballesteros, B., 347 (1997) 139

Marco, M.-P., see Gascón, J., 330 (1996) 41

Marco, M.-P., see Gascón, J., 347 (1997) 149

Marco, M.-P., see Nunes, G.S., 387 (1999) 245

Marco, M.-P., see Oubiña, A., 387 (1999) 255

Marco, M.P., see Oubiña, A., 387 (1999) 267

Marcolino-Junior, L.H., see Fatibello-Filho, O., 384 (1999) 167

Marcos, J. and Townshend, A., Fluoride determination by its inhibitory effect on immobilised liver esterase, 310 (1995)

Marcos, J., Rios, A. and Valcárcel, M., Automatic testing of enzyme modifiers by the flow-gradient technique, 308 (1995) 152

Mardones, C., Vizioli, N., Carducci, C., Rios, A. and Valcárcel, M., Separation and determination of carnitine and acyl-carnitines by capillary electrophoresis with indirect UV detection, 382 (1999)

Marekov, I.N., see Tarandjiiska, R.B., 364 (1998) 83

Marengo, E., Gennaro, M.C. and Abrigo, C., Investigation by experimental design and regression models of the effect of five experimental factors on ion-interaction high-performance liquid chromatographic retention, 321 (1996) 225

Marengo, E., Gennaro, M.C., Giacosa, D., Abrigo, C., Saini, G. and Avignone, M.T., How chemometrics can helpfully assist in evaluating environmental data. Lagoon water, 317 (1995) 53

Mares, A., see De Boever, J., 303 (1995) 143

Maria Oliveira Brett, A., see Dantoni, P., 366 (1998) 137

Marić, L. and Široki, M., Extraction of 4-(2-pyridylazo) resorcinol and 4-(2-thiazolylazo) resorcinol with chloroform and tetraphenylarsonium and phosphonium chlorides, 318 (1996) 345

Marin, B., Valladon, M., Polve, M. and Monaco, A., Reproducibility testing of a sequential extraction scheme for the determination of trace metal speciation in a marine reference sediment by inductively coupled plasma-mass spectrometry, 342 (1997) 91

Marin, J.L., see Bedini, J.L., 305 (1995) 304

Marina, M.L., see Jiménez, O., 353 (1997) 367

Marino, A., see Laganà, A., 306 (1995) 65

Marino, A., see Laganà, A., 316 (1995) 377 Marino, A., see Laganà, A., 354 (1997) 87

Marino, A., see Laganà, A., 375 (1998) 107

Marinsky, J.A., Reddy, M.M., Ephraim, J.H. and Mathuthu, A.S., Computational scheme for the prediction of metal ion binding by a soil fulvic acid, 302 (1995) 309

Mark, Jr., H.B., Zhang, H., K. Lunsford, S., Ceylan, O., Khaskelis, A.I., Atta, N., Galal, A., Hausner, S., Rubinson, J.F., Russell, G.C., Zimmer, H. and Kreishman, G.P., Synergetic effects in the flow injection analysis determination of catechol in the presence of excess ascorbic acid by series dual-b, 385 (1999) 281

Markides, K.E., see Wallenborg, S.R., 344 (1997) 77

Markl, G., see Musashi, M., 362 (1998) 261

Markov, D., see Swinney, K., 400 (1999) 265

Marko-Varga, G., see Buttler, T., 324 (1996) 103

Marko-Varga, G., see Gascón, J., 330 (1996) 41

Marko-Varga, G., see Lindgren, A., 347 (1997) 51

Marko-Varga, G., see Lutz, M., 305 (1995) 8

Marko-Varga, G., see Ruzgas, T., 311 (1995) 245

Marko-Varga, G., see Ruzgas, T., 330 (1996) 123

Marko-Varga, G., see Smolander, M., 302 (1995) 233 Marko-Varga, G., see Torto, N., 313 (1995) 15

Marko-Varga, G., see Torto, N., 374 (1998) 111

Marko-Varga, G., see Torto, N., 379 (1999) 281

Marko-Varga, G., see Yaropolov, A.I., 308 (1995) 137

Marletto, C., see Giraudi, G., 378 (1999) 225

Marín, D., Pérez, P., Teijeiro, C. and Paleček, E., Voltammetric determination of mitomycin C in the presence of other anticancer drugs and in urine, 358 (1998) 45

Maroto, A., Riu, J., Boqué, R. and Xavier Rius, F., Estimating uncertainties of analytical results using information from the validation process, 391 (1999) 173

Marouani, D., see Mayo, N., 310 (1995) 139

Marques, A.N., see Monna, F., 330 (1996) 107

Marqués, I., see Barbosa, J., 347 (1997) 385

Marqués, I., see Barbosa, J., 351 (1997) 397

Marqués, I., see Casassas, E., 310 (1995) 473

Marques, M.H., see Oliveira Brett, A.M., 385 (1999) 401

Marquette, C.A. and Blum, L.J., Luminol electrochemiluminescence-based fibre optic biosensors for flow injection analysis of glucose and lactate in natural samples, 381 (1999) 1

Marquette, C.A., Coulet, P.R. and Blum, L.J., Semi-automated membrane based chemiluminescent immunosensor for flow injection analysis of okadaic acid in mussels, 398 (1999) 173

Márquez, E.S., see Granadillo, V.A., 306 (1995) 139

Márquez, N., Ysambertt, F. and De La Cruz, C., Three analytical methods to isolate and characterize vanadium and nickel porphyrins from heavy crude oil, 395 (1999) 343

Marrazza, G., Chianella, I. and Mascini, M., Disposable DNA electrochemical biosensors for environmental monitoring, 387 (1999) 297

Marrero, J., see Smichowski, P., 376 (1998) 283

Marshall Clark, J., see Tessier, D.M., 376 (1998) 103

Marshall, G.D., see Taylor, M.J.C., 329 (1996) 275

Marshall, T. and Williams, K.M., High resolution two-dimensional electrophoresis of human urinary proteins, 372 (1998) 147

Marshall, T., see Williams, K.M., 372 (1998) 249

Martí, P., see Morales, M.M., 394 (1999) 109

Martel, A., see Ben Rejeb, S., 376 (1998) 41

Martel, A., see Ben Rejeb, S., 376 (1998) 133

Martelet, C., see Gorchkov, D.V., 331 (1996) 217

Martelet, C., see Jdanova, A.S., 321 (1996) 35

Martelet, C., see Netchiporouk, L.I., 303 (1995) 275

Martelet, C., see Poyard, S., 364 (1998) 165

Martelli, P.B., Neto, J.A.G., Zagatto, E.A.G., Brienza, S.M.B., Montenegro, M.C.B.S.M. and Lima, J.L.F.C., Sequential analyte removal in flow analysis: determination of nitrogen, phosphorus and potassium in fertilizers, 317 (1995) 239

Martelli, P.B., Reis, B.F., Korn, M. and Costa Lima, J.L., Automatic potentiometric titration in monosegmented flow system exploiting binary search, 387 (1999) 165

Martelli, P.B., Reis, B.F., Kronka, E.A.M., Bergamin F', H., Korn, M., Zagatto, E.A.G., Lima, J.L.F.C. and Araujo, A.N., Multi-commutation in flow analysis. Part 2. Binary sampling for spectrophotometric determination of nickel, iron and chromium in steel alloys, 308 (1995) 397

Martelli, P.B., see Rocha, F.R., 366 (1998) 45

Mårtensson, P., see Eklöv, T., 353 (1997) 291

Mårtensson, P., see Eklöv, T., 381 (1999) 221

Marti, V., see Garcia, M.A., 353 (1997) 123

Martin, A.F., see Aldstadt, J.H., 338 (1997) 215

Martin, B., see Libera, L.D., 352 (1997) 271

Martin, D., see Rich, D.C., 380 (1999) 263

Martin, G.G., see Jamin, E., 347 (1997) 359

Martin, G.J., Koziet, J., Rossmann, A. and Dennis, J., Site-specific natural isotope fractionation in fruit juices determined by deuterium NMR An European inter-laboratory comparison study, 321 (1996) 137

Martin, G.J., see Guillou, C., 388 (1999) 137

Martin, G.J., see Koziet, J., 302 (1995) 29

Martin, G.J., see Rossmann, A., 340 (1997) 21

Martin, I., see Pérez, J.A., 303 (1995) 65

Martin, J.R., see Polishchuk, V., 375 (1998) 205

Martin, M., Hagege, A., Brunette, J.P. and Leroy, M., Use of synergistic extraction for the study of atrazine/metal interactions, 373 (1998) 161

Martin, M.A., see Sbai, M., 303 (1995) 47

Martin, M.A., see Verdasco, G., 303 (1995) 73

Martín, M.J., Pablos, F. and González, A.G., Application of pattern recognition to the discrimination of roasted coffees, 320 (1996) 191

Martin, S.J., see Schneider, T.W., 309 (1995) 53

Martin, T.G., see Csapó, J., 339 (1997) 99

Martin-Alvarez, P.J., see Casal, V., 326 (1996) 77

Martin-Carratalá, M.L., see López-Cueto, G., 335 (1996) 185

Martin-Esteban, A., Fernández, P., Pérez-Conde, C., Gutiérrez, A. and Cámara, C., On-line preconcentration of aluminium with immobilized Chromotrope 2B for the determination by flame atomic absorption spectrometry and inductively coupled plasma mass spectrometry, 304 (1995) 121

Martinez, A.T., see Galletti, G.C., 335 (1996) 245

Martinez, E., see Gascón, J., 311 (1995) 357

Martinez, L., see Vicente, O., 366 (1998) 201

Martinez, M., see Baraj, B., 319 (1996) 191

Martinez, R.C., Domínguez, F.B., García, I.M.S., Méndez, J.H., Orellana, R.C. and Guzmán, R.S., Electrochemical response of a polypyrrole-dodecylsulphate electrode with multicharged cations and vitamins B<sub>1</sub> and B<sub>6</sub>. Application as a microsensor in flow-injection analysis, 336 (1996) 47

Martinez, R.C., Gonzalo, E.R., Fernández, E.H. and Méndez, J.H., Membrane extraction-preconcentration cell coupled on-line to flow-injection and liquid chromatographic systems. Determination of triazines in oils, 304 (1995) 323

Martinez, R.C., Gonzalo, E.R., Toribio, M.P.S. and Méndez, J.H., Determination of triazines in surface waters by membrane separation coupled on-line to a flow-injection system and partial least squares regression, 321 (1996) 147

Martinez, V.P., see Carbó, M.T.D., 330 (1996) 207

Martínez-Fàbregas, E., see Jurkiewicz, M., 327 (1996) 243

Martinez-Fâbregas, E., see Martorell, D., 337 (1997) 305

Martinez-Fàbregas, E., see Morales, A., 332 (1996) 131

Martinez-Izquierdo, M.E., Durand, J.S., Cabrera-Martin, A. and Vicente-Pérez, S., Photokinetic study of the Rose Bengal B-tin(II) reaction. Determination of tin in metals, 325 (1996)

Martinez-Lozano, C., see Pérez-Ruiz, T., 308 (1995) 299 Martinez-Lozano, C., see Pérez-Ruiz, T., 326 (1996) 41 Martinez-Soria, M.T., see Sanz-Asensio, J., 343 (1997) 39

Martinho, J.M.G., see Pinheiro, J.P., 329 (1996) 15

Martini, M., see Ristori, C., 325 (1996) 151

Martini, T.M., see Campanella, L., 305 (1995) 32

Martinis, B.S., see Carvalho, L.R.F., 317 (1995) 171

Martinotti, W., Queirazza, G., Guarinoni, A. and Mori, G., In-flow speciation of copper, zinc, lead and cadmium in fresh waters by square wave anodic stripping voltammetry Part II. Optimization of measurement step, 305 (1995) 183

Martinotti, W., see Carrer, I., 308 (1995) 20

Martins, E., see Djane, N.-K., 316 (1995) 305

Martirosian, E.R., see Elyashberg, M.E., 337 (1997) 265

Martirosian, E.R., see Elyashberg, M.E., 348 (1997) 443

Martirosian, E.R., see Elyashberg, M.E., 353 (1997) 105

Martirosian, E.R., see Elyashberg, M.E., 388 (1999) 353

Martín, M.E., Hernández, O.M., Jiménez, A.I., Arias, J.J. and Jiménez, F., Partial least-squares method in analysis by differential pulse polarography. Simultaneous determination of amiloride and hydrochlorothiazide in pharmaceutical preparations, 381 (1999) 247

Martín, M.J., Pablos, F. and González, A.G., Characterization of green coffee varieties according to their metal content, 358 (1998) 177

Martínez Calatayud, J., see Fuster Mestre, Y., 394 (1999) 159

Martínez Calatayud, J., see Moreno Gálvez, A., 396 (1999)

Martínez-Soria, M.T., see Sanz-Asensio, J., 381 (1999) 331

Martins, A.F., see Machado, E.L., 380 (1999) 93

Martorell, D., Céspedes, F., Martinez-Fàbregas, E. and Alegret, S., Determination of organophosphorus and carbamate pesticides using a biosensor based on a polishable, 7,7,8,8-tetracyanoquinodimethane-modified, graphite-epoxy biocomposite, 337

Marty, J.L., Mionetto, N., Lacorte, S. and Barceló, D., Validation of an enzymatic biosensor with various liquid chromatographic techniques for determining organophosphorus pesticides and carbaryl in freeze-dried waters, 311 (1995) 265

Marty, J.-L., see Evtugyn, G.A., 385 (1999) 13

Marty, J.-L., see Leca, B., 340 (1997) 143

Marty, J.-L., see Montagné, M., 315 (1995) 297

Marty, J.-L., see Noguer, T., 347 (1997) 63

Marty, J.-L., see Piletskaya, E.V., 391 (1999) 1

Marty, J.-L., see Piletskaya, E.V., 398 (1999) 49

Marty, J.-L., see Rouillon, R., 311 (1995) 437

Maruyama, K., see Mishima, Y., 358 (1998) 291

Marx, A., see Hock, B., 311 (1995) 393

März, W., see Groß, W., 383 (1999) 169

Marzocchi, A., see Lanza, P., 304 (1995) 223

Marzona, M., see Carpignano, R., 348 (1997) 489

Marzouk, S.A., Xu, C.X., Cosofret, B.R., Buck, R.P., Hassan, S.S., Neuman, M.R. and Sprinkle, R.H., Amperometric flow injection determination of putrescine and putrescine oxidase, 363 (1998) 57

Mas Torres, F., see Muñoz, A., 350 (1997) 21

Mas, E., see Bedini, J.L., 305 (1995) 304

Mas, F., see Galceran, J., 305 (1995) 273

Masana, A., see Anticó, E., 327 (1996) 267

Mascagni, P., Ball, H.L. and Bertolini, G., Selective purification of synthetic proteins by the use of FMOC- and biotin-based reversible chromatographic probes, 352 (1997) 375

Mascini, M., see Del Carlo, M., 336 (1996) 167

Mascini, M., see Del Carlo, M., 342 (1997) 189

Mascini, M., see Koncki, R., 351 (1997) 143

Mascini, M., see Koncki, R., 385 (1999) 451

Mascini, M., see Marrazza, G., 387 (1999) 297

Mascini, M., see Minunni, M., 325 (1996) 169

Mascini, M., see Palchetti, I., 337 (1997) 315

Mascini, M., see Tombelli, S., 358 (1998) 277

Masi, A., see Vicente, O., 366 (1998) 201

Masi, F., see Lepri, L., 317 (1995) 149

Masini, J.C., Abate, G., Lima, E.C., Hahn, L.C., Nakamura, M.S., Lichtig, J. and Nagatomy, H.R., Comparison of methodologies for determination of carboxylic and phenolic groups in humic acids, 364 (1998) 223

Maspoch, S., see Blanco, M., 303 (1995) 309

Maspoch, S., see Blanco, M., 327 (1996) 145

Maspoch, S., see Blanco, M., 333 (1996) 147

Maspoch, S., see Blanco, M., 353 (1997) 351

Maspoch, S., see Blanco, M., 383 (1999) 291

Maspoch, S., see Blanco, M., 384 (1999) 207

Maspoch, S., see Blanco, M., 392 (1999) 237

Maspoch, S., see Blanco, M., 398 (1999) 83

Massaro, S., see Colombara, R., 388 (1999) 171

Massart, D.L., see Barbieri, P., 398 (1999) 227

Massart, D.L., see Bouveresse, E., 348 (1997) 283

Massart, D.L., see Candolfi, A., 345 (1997) 185

Massart, D.L., see Centner, V., 330 (1996) 1 Massart, D.L., see Centner, V., 376 (1998) 153

Massart, D.L., see de Aguiar, P.F., 348 (1997) 223

Massart, D.L., see de Aguiar, P.F., 356 (1997) 7

Massart, D.L., see de Juan, A., 346 (1997) 307

Massart, D.L., see Guo, Q., 382 (1999) 87

Massart, D.L., see Hartmann, C., 338 (1997) 19

Massart, D.L., see Hartmann, C., 344 (1997) 17

Massart, D.L., see Heyden, Y.V., 312 (1995) 245

Massart, D.L., see Heyden, Y.V., 316 (1995) 15

Massart, D.L., see Heyden, Y.V., 347 (1997) 369

Massart, D.L., see Jimidar, M., 310 (1995) 27

Massart, D.L., see Jouan-Rimbaud, D., 304 (1995) 285

Massart, D.L., see Jouan-Rimbaud, D., 315 (1995) 257

Massart, D.L., see Jouan-Rimbaud, D., 350 (1997) 149

Massart, D.L., see Jouan-Rimbaud, D., 388 (1999) 283

Massart, D.L., see Pasti, L., 364 (1998) 253

Massart, D.L., see Poppi, R.J., 375 (1998) 187

Massart, D.L., see Sánchez, F.C., 314 (1995) 131

Massart, D.L., see Verdú-Andrés, J., 349 (1997) 271 Massart, D.L., see Verdú-Andrés, J., 389 (1999) 115

Massart, D.L., see Walczak, B., 331 (1996) 177

Massart, D.L., see Walczak, B., 331 (1996) 187

Massart, D.-L., see Wen, W., 335 (1996) 11

Massart, D.L., see Wu, W., 315 (1995) 243

Massart, D.L., see Wu, W., 329 (1996) 257

Massart, D.L., see Wu, W., 331 (1996) 75

Massart, D.L., see Wu, W., 349 (1997) 253

Massimino, M.L., see Libera, L.D., 352 (1997) 271

Másson, M., Liu, Z., Haruyama, T., Kobatake, E., Ikariyama, Y. and Aizawa, M., Immunosensing with amperometric detection, using galactosidase as label and p-aminophenyl-β-d-galactopyranoside as substrate, 304 (1995) 353

Mastihuba, V., see Katrlík, J., 379 (1999) 193

Mastin, J.P., see Striley, C.A.F., 399 (1999) 109

Mastin, J.P., Striley, C.A.F., Biagini, R.E., Hines, C.J., Hull, R.D., MacKenzie, B.A. and Robertson, S.K., Use of immunoassays for biomonitoring of herbicide metabolites in urine, 376 (1998) 119

Masuda, A., see Sahoo, S.K., 370 (1998) 215

Masuda, S., see Motonaka, J., 369 (1998) 87

Masuda, Y., see Yano, K., 340 (1997) 41

Masujima, T., Visualized single cell dynamics and analysis of molecular tricks, 400 (1999) 33

Masujima, T., see Ozawa, K., 365 (1998) 3

Masujima, T., see Razee, S., 356 (1997) 1

Masujima, T., see Sugawara, Y., 365 (1998) 293

Masujima, T., see Tamura, A., 365 (1998) 115

Masukawa, F., see Ito, K., 362 (1998) 241

Masumoto, Y., see Ozawa, K., 365 (1998) 3

Maswadeh, W.M., see Snyder, A.P., 316 (1995) 1

Mätächescu, C., Kulmala, S., Laine, E. and Raerinne, P., Luminolspecific extrinsic lyoluminescence of X-ray irradiated sodium chloride, 349 (1997) 1

Mataix, E. and Luque de Castro, M.D., Sequential determination of total and volatile acidity in wines based on a flow injectionpervaporation approach, 381 (1999) 23

Matějka, P., see Volf, R., 381 (1999) 197

Mathiasson, L., see Björklund, E., 368 (1998) 117

Mathiasson, L., see Malcus, F., 327 (1996) 295

Mathiasson, L., see Wieczorek, P., 337 (1997) 183

Mathiasson, L., see Wieczorek, P., 346 (1997) 191

Mathieu, D., see Monna, F., 330 (1996) 107

Mathieu, E., see Adams, F., 393 (1999) 147

Mathison, S., see Mi, Y., 397 (1999) 103

Mathur, J.N., see Kulkarni, M.J., 370 (1998) 163 Mathuthu, A.S., see Marinsky, J.A., 302 (1995) 309

Matisová, E. and Škrabáková, S., Applicability of a novel carbon sorbent for the preconcentration of volatile chlorinated hydrocarbons, 309 (1995) 181

Matoetoe, M.C., see van Staden, J.F., 376 (1998) 325

Matsuda, T., see Inukai, Y., 371 (1998) 187

Matsuda, Y., Kamiya, K. and Uchida, K., Prediction of an antisenseeffective target site on VEGFmRNA by using RNase H and a library of random oligonucleotides, 365 (1998) 55

Matsuda, Y., see Katayama, M., 303 (1995) 333

Matsui, J., Doblhoff-Dier, O. and Takeuchi, T., 2-(Trifluoromethyl)acrylic acid: a novel functional monomer in non-covalent molecular imprinting, 343 (1997) 1

Matsui, J., Nicholls, I.A. and Takeuchi, T., Molecular recognition in cinchona alkaloid molecular imprinted polymer rods, 365 (1998) 89

Matsui, J., Nicholls, I.A., Takeuchi, T., Mosbach, K. and Karube, I., Metal ion mediated recognition in molecularly imprinted polymers, 335 (1996) 71

Matsui, J., see Kugimiya, A., 365 (1998) 75

Matsui, J., see Yano, K., 357 (1997) 91

Matsui, J., see Yano, K., 363 (1998) 111

Matsui, M., see Sohrin, Y., 363 (1998) 11

Matsui, M., see Yoshida, Y., 373 (1998) 213

Matsui, M., see Yoshida, Y., 374 (1998) 269

Matsukawa, R., see Asai, R., 390 (1999) 237

Matsumoto, A., Fukumoto, T., Adachi, H. and Watarai, H., Electrospray ionization mass spectrometry of metal complexes. Gas phase formation of a binuclear copper(II)-5-Br-PADAP complex, 390 (1999) 193

Matsumoto, J., Lin, C.-H. and Imasaka, T., Supersonic jet multiphoton ionization mass spectrometry using nanosecond and femtosecond pulse lasers, 343 (1997) 129

Matsumoto, K. and Tsukatani, T., Simultaneous quantitation of citrate and isocitrate in citrus juice by a flow-injection method based on the use of enzyme reactors, 321 (1996) 157

Matsumoto, K. and Waki, K., Simultaneous biosensing of ethanol and glucose with combined use of a rotating bioreactor and a stationary column reactor, 380 (1999) 1

Matsumoto, K., Asada, W. and Murai, R., Simultaneous biosensing of inosine monophosphate and glutamate by use of immobilized enzyme reactors, 358 (1998) 127

Matsumoto, K., see Chen, R.L.C., 308 (1995) 145

Matsumoto, M., Tsunematsu, K., Tsuji, A. and Kido, Y., Enzyme immunoassay using peroxidase as a label and a dip-strip test for monitoring residual bacitracin in chicken plasma, 346 (1997) 207

Matsumoto, T., see Ito, N., 312 (1995) 323

Matsumoto, Y., see Ito, N., 312 (1995) 323

Matsunaga, A., see Nakazawa, H., 396 (1999) 125

Matsunaga, K., see Yuchi, A., 388 (1999) 201

Matsunaga, T., see Lim, T.K., 354 (1997) 29

Matsunaga, T., see Lim, T.k., 370 (1998) 207

Matsunaga, Y., see Murata, K., 344 (1997) 153 Matsuoka, H., see Hikuma, M., 306 (1995) 209

Matsuoka, S., Yoshimura, K. and Tateda, A., Application of ionexchanger phase visible light absorption to flow analysis. Determination of vanadium in natural water and rock, 317 (1995) 207

Matsuura, H., see Morishima, K., 365 (1998) 273

Matsuzawa, S., Garrigues, P., Budzinski, H., Bellocq, J. and Shimizu, Y., Applicability of low temperature high-resolution fluor-escence spectroscopy to the analysis of nitro and amino polycyclic aromatic hydrocarbons, 312 (1995) 165

Matthews, C., see Hart, A.L., 386 (1999) 7

Matthews, G.P., see McKelvie, I.D., 351 (1997) 265

Mattia, B., see Wenli, L., 362 (1998) 253

Mattiasson, B., see Corbisier, P., 387 (1999) 235

Mattiasson, B., see Hedenfalk, M., 341 (1997) 269

Matton, S., see Aupiais, J., 398 (1999) 205

Mattusch, J., see Shkinev, V.M., 327 (1996) 167

Matuszewski, B., see Schwartz, M., 352 (1997) 299

Matveev, O.I., see Riter, K.L., 333 (1996) 187

Matveeva, E.G., Savitsky, A.P. and Gómez-Hens, A., Determination of corproporphyrin in urine by using stopped-flow fluoroimmunoassay, 361 (1998) 27

Matysik, F.M., Björefors, F. and Nyholm, L., Application of microband array electrodes for end-column electrochemical detection in capillary electrophoresis, 385 (1999) 409 Matysik, F.-M., Meister, A. and Werner, G., Electrochemical detection with microelectrodes in capillary flow systems, 305 (1995) 114

Matysik, F.M., see Backofen, U., 362 (1998) 213

Matz, W., see Pham, M.T., 320 (1996) 289

Matz, W., see Pham, M.T., 350 (1997) 209

Maume, D., see Bizec, B.L., 340 (1997) 201

Maupas, B., see Letellier, S., 315 (1995) 357

Maupas, H., see Gorchkov, D.V., 331 (1996) 217

Mawatari, K.i., Andoh, Y., Nakamura, Y., Nishiyama, K., Iinuma, F. and Watanabe, M., Fluorometric determination of N<sup>1</sup>-methylnicotinamide in human urine and serum by liquid chromatography postcolumn photoirradiation with a mobile phase containing 18-crown-6, 363 (1998) 133

Mawatari, K.-i., Oshida, K., Iinuma, F. and Watanabe, M., Determination of quinolinic acid in human urine by liquid chromatography with fluorimetric detection, 302 (1995) 179

Maximiano, F., see Katekawa, E., 385 (1999) 345

Maxwell, S.L., see Horwitz, E.P., 310 (1995) 63

Maxwell, T.J., see Oxspring, D.A., 323 (1996) 97

Mayer, M., Genrich, M., Künnecke, W. and Bilitewski, U., Automated determination of lactulose in milk using an enzyme reactor and flow analysis with integrated dialysis, 324 (1996) 37

Mayfield, H., see Taverna, P.J., 373 (1998) 111

Mayo, N., Harth, R., Mor, U., Marouani, D., Hayon, J. and Bettelheim, A., Electrochemical response to H<sub>2</sub>, O<sub>2</sub>, CO<sub>2</sub> and NH<sub>3</sub> of a solid-state cell based on a cation- or anion-exchange membrane serving as a solid polymer electrolyte, 310 (1995) 139

Mazerska, Z., see Cakała, M., 379 (1999) 209

Mazo, L.H., see Almeida, L.E., 375 (1998) 223

Mazúr, M., Valko, M. and Morris, H., Electron paramagnetic resonance signal intensity of a line-like sample with a variable length situated at an arbitrary position along the common samplecavity axis. Theoretical prediction versus experimental measurement, 367 (1998) 233

Mazúr, M., Valko, M., Klement, R. and Morris, H., Quantitative electron paramagnetic resonance (EPR) spectrometry with a TE<sub>104</sub> double rectangular cavity Part 1. A simple alignment procedure for the precision positioning of the sample, 333 (1996) 249

Mazúr, M., Valko, M., Micov, M. and Morris, H., Analytical solution for the electron paramagnetic resonance signal intensity of a linelike sample of variable length whose centre is situated at an arbitrary position along the common sample-cavity x-axis, 373 (1998) 107

Mazúr, M., Valko, M., Morris, H. and Klement, R., Quantitative electron paramagnetic resonance (EPR) spectrometry with a TE<sub>104</sub> double rectangular cavity Part 2. Analysis of sample and TE<sub>104</sub> cavity error sources associated with the movement of line-like samples into the TE<sub>104</sub> cavity, 333 (1996) 253

Mazzei, F., Botrè, F. and Botrè, C., Acid phosphatase/glucose oxidase-based biosensors for the determination of pesticides, 336 (1996) 67

Mazzei, F., Botrè, F., Lorenti, G. and Porcelli, F., Peroxidase based amperometric biosensors for the determination of γ-aminobutyric acid, 328 (1996) 41 Mazzei, F., Botrè, F., Lorenti, G., Simonetti, G., Porcelli, F., Scibona, G. and Botrè, C., Plant tissue electrode for the determination of atrazine, 316 (1995) 79

Mazzocchin, G.A., see Baldo, M.A., 340 (1997) 77

Mazzocchin, G.A., see Ugo, P., 305 (1995) 74

McCarley, R.L., see Willicut, R.J., 307 (1995) 269

McCarley, T.D., see Macha, S.F., 397 (1999) 235 McClean, S., see Oxspring, D.A., 317 (1995) 295

McClure, A.C., see Henke, L., 344 (1997) 201

McComb, M.E. and Gesser, H.D., Passive monitoring of trace metals in water by in situ sample preconcentration via chelation on a textile based solid sorbent, 341 (1997) 229

McCormack, T. and van Staden, J.F., Use of a sequential injection technique to evaluate the effect of mixing chambers on zone penetration, 367 (1998) 111

McCormack, T., see David, A.R., 361 (1998) 63

McCormack, T., see van Staden, J.F., 369 (1998) 163

McCreedy, T., see Madichie, C., 392 (1999) 39

McCurley, M.F. and Glazier, S.A., Optical control of enzymatic conversion of sucrose to glucose by bacteriorhodopsin incorporated into self-assembled phosphatidylcholine vesicles, 311 (1995) 211

McDonald, I., Harris, J.W. and Vaughan, D.J., Determination of noble metals in sulphide inclusions from diamonds using inductively coupled plasma-mass spectrometry, 333 (1996) 41

McDowall, R.D., The role of laboratory information management systems (LIMS) in analytical method validation, 391 (1999) 149

McGill, R. Andrew, see Shaffer, R.E., 384 (1999) 305

McGovern, M.E., see Yang, M., 346 (1997) 259

McGrath, G.J., O'Kane, E., Smyth, W.F. and Tagliaro, F., Investigation of the electrochemical oxidation of clenbuterol at a porous carbon electrode, and its application to the determination of this β-agonist in bovine hair by liquid chromatography with coulometric detection, 322 (1996) 159

McGrath, M., see Fang, T., 305 (1995) 347

McGuffin, V.L., see Mehlman, S.A., 371 (1998) 117

McIntosh, S., see Guo, T., 331 (1996) 263

McKelvie, I.D., Hart, B.T., Cardwell, T.J. and Cattrall, R.W., Use of immobilized 3-phytase and flow injection for the determination of phosphorus species in natural waters, 316 (1995) 277

McKelvie, I.D., Peat, D.M.W., Matthews, G.P. and Worsfold, P.J., Elimination of the Schlieren effect in the determination of reactive phosphorus in estuarine waters by flow-injection analysis, 351 (1997) 265

McKelvie, I.D., see Benson, R.L., 326 (1996) 29

McKervey, M.A., see Grady, T., 336 (1996) 1

McKittrick, T., see Grady, T., 336 (1996) 1

McLeod, C.W., see Lunar, M.L., 337 (1997) 341

McLeod, C.W., see Morales-Rubio, A., 308 (1995) 364

McLeod, S., see Lane, R., 395 (1999) 225

McNamara, K.P., Li, X., Stull, A.D. and Rosenzweig, Z., Fiber-optic oxygen sensor based on the fluorescence quenching of tris (5acrylamido, 1,10 phenanthroline) ruthenium chloride, 361 (1998)

McNamara, K.P., see Nguyen, T., 400 (1999) 45

McNamara, K.P., Yeung, E.S., Rosenzweig, N. and Rosenzweig, Z., Dynamic analytical chemistry: a kinetic study of the labeling of normal and age fractionated human erythrocytes with monobromobimane, 356 (1997) 75

McNiven, S., Kato, M., Levi, R., Yano, K. and Karube, I., Chloramphenicol sensor based on an in situ imprinted polymer, 365 (1998) 69

McNiven, S., see Ji, H.S., 387 (1999) 39

McNiven, S., see Ji, H.S., 390 (1999) 93

McNiven, S., see Lee, K.H., 386 (1999) 211

McNiven, S.J., see Lee, K.H., 398 (1999) 161

McShane, M.J., Cameron, B.D., Coté, G.L., Motamedi, M. and Spiegelman, C.H., A novel peak-hopping stepwise feature selection method with application to Raman spectroscopy, 388 (1999) 251

McSweeney, C.C., Hutchinson, S., Harris, S. and Glennon, J.D., Supercritical fluid chromatography and extraction of Fe(III) with hydroxamic acids, 346 (1997) 93

MdMuslim, T., see Lai, E.P., 364 (1998) 63

Meaney, M., see Regan, F., 334 (1996) 85

Mecklenburg, M., Grauers, A., Jönsson, B.R., Weber, A. and Danielsson, B., A strategy for the broad range detection of compounds with affinity for nucleic acids, 347 (1997) 79

Mecklenburg, M., see Dzgoev, A., 347 (1997) 87

Medina-Hernández, M.J., see Blasco, F., 348 (1997) 151

Medina-Hernández, M.J., see Pérez-Martínez, I., 304 (1995)

Medved', J., see Kubová, J., 337 (1997) 329

Medved', J., see Polakovičová, J., 320 (1996) 145

Medyantseva, E.P., Vertlib, M.G., Kutyreva, M.P., Khaldeeva, E.I., Budnikov, G.K. and Eremin, S.A., The specific immunochemical detection of 2,4-dichlorophenoxyacetic acid and 2,4.5-trichlorophenoxyacetic acid pesticides by amperometric cholinesterase biosensors, 347 (1997) 71

Medzihradszky, K.F., see Gu, C., 397 (1999) 247

Meeravali, N.N., see Kumar, S.J., 371 (1998) 305

Mees, L., see Zhang, X., 319 (1996) 177

Megersa, N., Chandravanshi, B.S. and Moges, G., Potentiometric determination of tanatalum with a hexafluorotantalate(V)-selective liquid membrane electrode, 311 (1995) 183

Mehlis, B. and Kertscher, U., Liquid chromatography/mass spectrometry of peptides of biological samples, 352 (1997) 71

Mehlman, S.A., Wentzell, P.D. and McGuffin, V.L., Prediction of Simple Physical Properties of Mixed Solvent Systems by Artificial Neural Networks, 371 (1998) 117

Mei, L. and Huie, C.W., Chemiluminescence detection of porphyrins with the peroxyoxalate reaction by flow-injection analysis, 339 (1997) 131

Mei, L., see Zhe-ming, N., 334 (1996) 177

Meijer, H.A., see le Clercq, M., 370 (1998) 19

Meinander, N.Q., see Lidén, H., 361 (1998) 223

Meinders, M.J., see Faber, N.M., 304 (1995) 257

Meinders, M.J., see Faber, N.M., 304 (1995) 273 Meinhardt, E., see García, M.A., 353 (1997) 123

Meisel, H. and Olieman, C., Estimation of calcium-binding constants of casein phosphopeptides by capillary zone electrophoresis, 372 (1998) 291

Meister, A., see Matysik, F.-M., 305 (1995) 114

Mei-Xiu, Z., see Zhi-Liang, J., 320 (1996) 139

Mejstřík, V., see Barek, J., 356 (1997) 231

Mela, J., see Cremisini, C., 311 (1995) 273

Meloun, M., see Fang, Z., 367 (1998) 123

Melssen, W., see Wienke, D., 317 (1995) 1

Melssen, W.J., see de Groot, P.J., 392 (1999) 67

Men, L.C., see Wang, C.F., 389 (1999) 257

Men, L.C., see Wang, C.F., 392 (1999) 299

Mena, M.L., see Morales-Rubio, A., 308 (1995) 364

Menardo, C., see Verdú-Andrés, J., 349 (1997) 271

Menardo, C., see Verdú-Andrés, J., 389 (1999) 115

Méndez, J.H., see Martinez, R.C., 304 (1995) 323

Méndez, J.H., see Martinez, R.C., 321 (1996) 147

Méndez, J.H., see Martinez, R.C., 336 (1996) 47

Méndez, S., see Vidal, J.C., 385 (1999) 203

Mendieta, J., Díaz-Cruz, M.S., Monjonell, A., Tauler, R. and Esteban, M., Complexation of cadmium by the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: study by differential pulse polarography and circular dichroism spectroscopy with multivariate curve resolution analysis, 390 (1999) 15

Mendieta, J., see Díaz-Cruz, M.S., 385 (1999) 353

Mendieta, J., see Ruiz, C., 305 (1995) 285

Menéndez, J.C., see Verdasco, G., 303 (1995) 73

Meng, R., see Cui, H., 362 (1998) 151

Mengsu, Y., Yau, H.C.M. and Wenhong, Z., Response of a thicknessshear mode quartz crystal resonator upon hydrogel formation, 351 (1997) 177

Mentasti, E., see Abollino, O., 305 (1995) 200

Mentasti, E., see Abollino, O., 375 (1998) 293

Mentasti, E., see Abollino, O., 375 (1998) 299

Mentasti, E., see Abollino, O., 383 (1999) 243

Mentasti, E., see Bruzzoniti, M.C., 322 (1996) 49

Mentasti, E., see Bruzzoniti, M.C., 353 (1997) 239

Mentasti, E., see Bruzzoniti, M.C., 382 (1999) 291
Menzel, C., Lerch, T., Scheper, T. and Schügerl, K., Development of biosensors based on an electrolyte isolator semiconductor (EIS)-capacitor structure and their application for process monitoring Part I. Development of the biosensors and their characterization,

Merás, I.D., see Espinosa-Mansilla, A., 320 (1996) 125

Mercader, J.V. and Montoya, A., A monoclonal antibody-based ELISA for the analysis of azinphos-methyl in fruit juices, 347 (1997) 95

Mercier<sup>1</sup>, N., see Hubert, P., 391 (1999) 135

317 (1995) 259

Meriluoto, J., Chromatography of microcystins, 352 (1997) 277

Merkoci, A., Braga, S., Fàbregas, E. and Alegret, S., A potentiometric biosensor for p-amygdalin based on a consolidated biocomposite membrane, 391 (1999) 65

Meruva, R.K. and Meyerhoff, M.E., Potentiometric oxygen sensor based on mixed potential of cobalt wire electrode, 341 (1997) 187

Meruva, R.K., see Dong, L., 321 (1996) 173

Mesároš, Š., Grunfeld, S., Mesárošová, A., Bustin, D. and Malinski, T., Determination of nitric oxide saturated (stock) solution by chronoamperometry on a porphyrine microelectrode, 339 (1997) 265

Mesároš, Š., see Bustin, D., 305 (1995) 121

Mesároš, S., see Tomčík, P., 374 (1998) 283

Mesároš, S., Vaňková, Z., Grunfeld, S., Mesárošová, A. and Malinski, T., Preparation and optimization of superoxide microbiosensor. 358 (1998) 27

Mesárošová, A., see Mesároš, Š., 339 (1997) 265

Mesárošová, A., see Mesároš, S., 358 (1998) 27

Messerschmidt, J., see Alt, F., 359 (1998) 65

Messick, N.J., see Bakken, G.A., 334 (1996) 15

Messmer, M.C., see Pizzolatto, R.L., 397 (1999) 81

Mester, Z. and Fodor, P., Selenium speciation with on-column preconcentration high-performance liquid chromatography – atomic fluorescence spectrometry using ultrasonic nebulization technique, 386 (1999) 89

Mester, Z., Angelone, M., Brunori, C., Cremisini, C., Muntau, H. and Morabito, R., Digestion methods for analysis of fly ash samples by atomic absorption spectrometry, 395 (1999) 157

Mester, Z., Cremisini, C., Ghiara, E. and Morabito, R., Comparison of two sequential extraction procedures for metal fractionation in sediment samples. 359 (1998) 133

Mestres, J.-J., see Rouillon, R., 311 (1995) 437

Mészáros, G., see Idei, M., 372 (1998) 273

Metcalf, S.G., see Okemgbo, A.A., 396 (1999) 105

Meulenberg, E., see Houben, A., 399 (1999) 69

Meulenberg, E.P. and Stoks, P.G., Water quality control in the production of drinking water from river water. The application of immunological techniques for the detection of chlorophenoxy acid herbicides (2,4-D), 311 (1995) 407

Meulenberg, E.P., de Vree, L.G. and Dogterom, J., Investigation of indicative methods in the Netherlands: validation of several commercial ELISAs for pesticides, 399 (1999) 143

Meusinger, R., Qualitative and quantitative determination of oxygenates in gasolines using <sup>1</sup>H nuclear magnetic resonance spectroscopy, 391 (1999) 277

Meyer, E., see Lang, H.P., 393 (1999) 59

Meyer, V.R., see Rukhadze, M.D., 356 (1997) 19

Meyerhoff, M.E., see Ambrose, T.M., 378 (1999) 119

Meyerhoff, M.E., see Badr, I.H.A., 310 (1995) 211

Meyerhoff, M.E., see Badr, I.H.A., 321 (1996) 11

Meyerhoff, M.E., see Dong, L., 321 (1996) 173

Meyerhoff, M.E., see Ducey Jr., M.W., 357 (1997) 5

Meyerhoff, M.E., see Malinowska, E., 382 (1999) 265

Meyerhoff, M.E., see Meruva, R.K., 341 (1997) 187

Meyerhoff, M.E., see Rüdel, U., 392 (1999) 191

Mi, Y., Mathison, S., Goines, R., Logue, A. and Bakker, E., Detection limit of polymeric membrane potentiometric ion sensors: how can we go down to trace levels?, 397 (1999) 103

Mian, J., see Bo, H., 312 (1995) 329

Miao, D., see Haiying, L., 329 (1996) 97

Miao, H., Hu, J., Lu, Y. and Li, Q., Studies on the adsorptive behaviour of mazindol and its adsorptive stripping voltammetry, 358 (1998) 297

Miao, W., see Bond, A.M., 396 (1999) 203

Mibu, Y., see Kamei, T., 365 (1998) 259

Michael, A.C., see Garguilo, M.G., 307 (1995) 291

Michálková, D., see Kotouček, M., 353 (1997) 61

Michalowsky, J., see Dreveny, D., 398 (1999) 183

Michalski, W.P. and Shiell, B.J., Strategies for analysis of electrophoretically separated proteins and peptides, 383 (1999) 27

Michard, G., see Sedjil, M., 377 (1998) 179

Michaud, D., Gel electrophoresis of proteolytic enzymes, 372 (1998) 173

Micheel, B., see Stöcklein, W.F., 362 (1998) 101

Michel, L., see Heyden, Y.V., 316 (1995) 15

Michel, P.E., Fiaccabrino, G.C., de Rooij, N.F. and Koudelka-Hep, M., Integrated sensor for continuous flow electrochemiluminescent measurements of codeine with different ruthenium complexes, 392 (1999) 95

Michel, P.E., Gautier-Sauvigné, S.M. and Blum, L.J., A transient enzymatic inhibition as an efficient tool for the discriminating bioluminescent analysis of three adenylic nucleotides with a fiberoptic sensor based on a compartmentalized tri-enzymatic sensing layer, 360 (1998) 89

Michulitz, M., see Hoppstock, K., 350 (1997) 135

Mickey Young, M., see Rakicioglu, Y., 359 (1998) 269

Micov, M., see Mazúr, M., 373 (1998) 107

Miele, E.W., see Seitz, W. Rudolf, 400 (1999) 55

Miermans, C.J.H., Fokkens, R.H. and Nibbering, N.M.M., A study of the applicability of various ionization methods and tandem mass spectrometry in the analyses of triphenyltin compounds, 340 (1997) 5

Miertuš, S., see Katrlik, J., 331 (1996) 225

Miertuš, S., see Katrlík, J., 356 (1997) 217

Miertuš, S., see Katrlík, J., 379 (1999) 193

Mierzwa, J., Sun, Y.C. and Yang, M.H., Determination of Co and Ni in soils and river sediments by electrothermal atomic absorption spectrometry with slurry sampling, 355 (1997) 277

Migdall, A., Dauler, E., Muller, A. and Sergienko, A., Tests of an omnipresent standard for absolute spectral radiance measurements, 380 (1999) 311

Migdalski, J., Blaz, T. and Lewenstam, A., Conducting polymerbased ion-selective electrodes, 322 (1996) 141

Migdalski, J., Blaz, T. and Lewenstam, A., Electrochemical deposition and properties of polypyrrole films doped with calcion ligands, 395 (1999) 65

Mignano, L., Perdicakis, M. and Bessière, J., Ultramicroelectrode study without deliberately added electrolyte: application to the analysis of liquid-liquid extraction processes in dichloromethane, 305 (1995) 137

Mihajlović, L., see Mihajlović, R., 318 (1996) 287

Mihajlović, R., Simić, Z., Mihajlović, L., Jokić, A., Vukašinović, M. and Rakićević, N., Application of hydrogen-palladium and deuterium-palladium electrodes in the coulometric-potentiometric determination of bases in some dipolar aprotic solvents, 318 (1996) 287

Mihalatos, A.M. and Calokerinos, A.C., Ozone chemiluminescence in environmental analysis, 303 (1995) 127

Mihályfi, K., see Gazdag, M., 352 (1997) 231

Mikac, N., Yun, W. and Harrison, R.M., Intercomparison of alkyllead compound determination in mussels and water by two analytical techniques: gas chromatography atomic absorption spectrometry and differential pulse anodic stripping voltammetry, 326 (1996) 57 Miki, A., Tsuchihashi, H., Yamano, H. and Yamashita, M., Extractive pentafluorobenzylation using a polymeric phase-transfer catalyst: a convenient one-step pretreatment for gas chromatographic analysis of anionic compounds, 356 (1997) 165

Miki, H., see Tsukada, S., 371 (1998) 163

Miki, K., see Kinoshita, H., 303 (1995) 301 Mikšik, I., see Deyl, Z., 352 (1997) 257

Mikšík, I., see Hamrníková, I., 372 (1998) 257

Mikuška, P. and Večeřa, Z., Application of gallic acid and xanthene dyes for determination of ozone in air with a chemiluminescence aerosol detector, 374 (1998) 297

Mikuška, P., Večeřa, Z. and Zdráhal, Z., Flow-injection chemiluminescence determination of ultra low concentrations of nitrite in water, 316 (1995) 261

Milagres, B.G., de Oliveira Neto, G., Kubota, L.T. and Yamanaka, H., A new amperometric biosensor for salicylate based on salicylate hydroxylase immobilized on polipyrrole film doped with hexacyanoferrate, 347 (1997) 35

Milanko, O.S., see Milinković, S.A., 331 (1996) 233

Milardović, S., Kruhak, I., Iveković, D., Rumenjak, V., Tkalčec, M. and Grabarić, B.S., Glucose determination in blood samples using flow injection analysis and an amperometric biosensor based on glucose oxidase immobilized on hexacyanoferrate modified nickel electrode, 350 (1997) 91

Milburn, H.B., see Feely, R.A., 377 (1998) 185

Milde, S., see Seitz, W. Rudolf, 400 (1999) 55

Milić, N.B. and urišić, Z.M., A computer program GEZ for determination of the equivalence point of the acid-base titration and E<sub>0</sub> of the glass electrode, 331 (1996) 23

Milinković, S.A. and Milanko, O.S., Ionization chamber as a gas sensor: organophosphorus compound detection, 331 (1996) 233

Miller, H.M., see Baur, J.E., 397 (1999) 123

Miller, J.N., see Palmer, D.A., 303 (1995) 223

Miller, J.S., Determination of polycyclic aromatic hydrocarbons by spectrofluorimetry, 388 (1999) 27

Miller, L.A. and Bruland, K.W., Competitive equilibration techniques for determining transition metal speciation in natural waters: Evaluation using model data, 343 (1997) 161

Miller, L.S., see Chuang, J.C., 376 (1998) 67

Miller-Stein, C., see Boppana, V.K., 352 (1997) 61

Mills, A., Lepre, A. and Wild, L., Effect of plasticizer-polymer compatibility on the response characteristics of optical thin CO<sub>2</sub> and O<sub>2</sub> sensing films, 362 (1998) 193

Mills, R., see Lakshman, S., 321 (1996) 113

Millward, G.E., see Bellerby, R.G.J., 309 (1995) 259

Milojevic, D., Molnar, J., Gutmann, F. and Wong, D.K.Y., Toxic interactions between clozapine and ampicillin, 319 (1996) 353

Min, G., Nagaraj, S., Rahavendran, S.V. and Karnes, H.T., Diode laser induced near infra-red fluorescence detection for highperformance liquid chromatography analysis of indocyanine green in plasma, 342 (1997) 145

Min, J.C., Jae, H.S., Bong, K.O., Chang, Y.K., Geun, S.C., Doo, S.S. and Bokhee, K., Asymmetric cellulose acetate membrane-based carbonate- and chloride-selective electrodes, 315 (1995) 311

Min, R.W., Rajendran, V., Larsson, N., Gorton, L., Planas, J. and Hahn-Hägerdal, B., Simultaneous monitoring of glucose and Llactic acid during a fermentation process in an aqueous twophase system by on-line FIA with microdialysis sampling and dual biosensor detection, 366 (1998) 127

Min, Z., Huang, X.-M. and Shen, H.-X., Microbial enzymatic assay of glucose in serum. 349 (1997) 165

Min, Z., Xue-Mei, H., Han-Xi, S. and Rong, L., Biomimic of peroxidase and enzymatic assay for ascorbic acid, 334 (1996) 303

Minagawa, K., see Motonaka, J., 369 (1998) 87

Minakuchi, H., see Karatani, H., 337 (1997) 207

Minami, H., see Yanagihara, H., 335 (1996) 63

Minami, T., Tohno, Y., Okazaki, Y., Kubo, K., Otaki, N. and Kimura, M., Quantitation of metallothionein isoforms in mouse liver on capillary zone electrophoresis, 372 (1998) 241

Minamisawa, H., Iwanami, H., Arai, N. and Okutani, T., Adsorption behavior of cobalt(II) on chitosan and its determination by tungsten metal furnace atomic absorption spectrometry, 378 (1999) 279

Minamisawa, H., Kuroki, H., Arai, N. and Okutani, T., Coprecipitation of ruthenium with chitosan and its determination by graphite furnace atomic absorption spectrometry, 398 (1999) 289

Minamitani, H., see Hisamoto, H., 342 (1997) 31

Minamitani, H., see Kyungho, K., 343 (1997) 199

Min-Chol, S., Yoon, H.C. and Hak-Sung, K., In situ biochemical reduction of interference in an amperometric biosensor with a novel heterobilayer configuration of polypyrrole/glucose oxidase/horseradish peroxidase, 329 (1996) 223

Minett, A., see Barisci, J.N., 371 (1998) 39

Minett, A.I., see Teasdale, P.R., 367 (1998) 201

Ming Fat, C. and Hawkins, P., Investigation of the response of dyenonaqueous solvent solutions to carbon dioxide, 309 (1995) 27

Ming, K.W., see Chao, Y.Z., 314 (1995) 121

Ming, S., Ma, H.-M., Huang, Y.-X. and Liang, S.-C., Determination of poly(vinyl alcohol) by adsorptive stripping voltammetry based on its copper(II) complex, 338 (1997) 103

Mingorance, M.D., see Campos, E., 369 (1998) 235

Minkkinen, P., see Heikka, R., 346 (1997) 277

Minkkinen, P., see Pantsar-Kallio, M., 393 (1999) 181

Minkkinen, P., see Sundqvist, S., 391 (1999) 269

Minkkinen, P.O., see Heikka, R.A., 349 (1997) 287

Minning, S., Weiss, A., Bornscheuer, U.T. and Schmid, R.D., Determination of peracid and putative enzymatic peracid formation by an easy colorimetric assay, 378 (1999) 293

Minunni, M., Mascini, M., Carter, R.M., Jacobs, M.B., Lubrano, G.J. and Guilbault, G.G., A quartz crystal microbalance displacement assay for Listeria monocytogenes, 325 (1996) 169

Mionetto, N., see Marty, J.L., 311 (1995) 265

Mioshi, R.N. and do Lago, C.L., An equilibrium simulator for multiphase equilibria based on the extent of reaction and Newton-Raphson method with globally convergent strategy (SEQEx2), 334 (1996) 271

Miralles, N., see Sastre, A., 350 (1997) 197

Miran Beigi, A.A., Teymouri, M., Bagheri, A., Tash, S. and Saraji, M., Determination of trace total sulfur in organic compounds by Raney nickel reduction with voltammetric detection, 381 (1999) 117

Miranda Ordieres, A.J., see Fernández Villamil, M.J., 345 (1997) 37 Miranda, A.J., see Lobo, M.J., 325 (1996) 33 Miranda-Ordieres, A.J., see Lobo-Castañón, M.J., 346 (1997) 165Mirčeski, V. and Lovrić, M., Square-wave voltammetry of a cathodic stripping reaction complicated by adsorption of the reacting ligand, 386 (1999) 47

Mirsky, V.M., see Riepl, M., 392 (1999) 77

Mishima, Y., Motonaka, J. and Ikeda, S., Utilization of an osmium complex as a sequence recognizing material for DNA-immobilized electrochemical sensor, 345 (1997) 45

Mishima, Y., Motonaka, J., Maruyama, K. and Ikeda, S., Determination of hydrogen peroxide using a potassium hexacyanoferrate(III) modified titanium dioxide electrode, 358 (1998) 291

Mishima, Y., see Ikeda, S., 384 (1999) 45

Mishima, Y., see Motonaka, J., 369 (1998) 87

Misita, M., see Chuang, J.C., 399 (1999) 135

Mitrovics, J., see Abbas, M.N., 393 (1999) 67

Mitsoulis, K., see Papadopoulos, K., 304 (1995) 91

Mittenzwey, K.-H. and Sinn, G., Time-resolved spectroscopy of long-path fluorescence and scattering for measuring total absorption of fluids, 330 (1996) 183

Mittermayr, C.R., Lendl, B., Rosenberg, E. and Grasserbauer, M., The application of the wavelet power spectrum to detect and estimate 1/f noise in the presence of analytical signals, 388 (1999) 303

Miura, J., see Nagaosa, Y., 356 (1997) 135

Miura, M., Funazo, K. and Tanaka, M., Chiral separation of several naphthalenesulfonylamino acids by capillary zone electrophoresis with selectively methylated cyclodextrin derivatives, 357 (1997) 177

Miura, M., Kawamoto, K., Funazo, K. and Tanaka, M., Chiral separation of several amino acid derivatives by capillary zone electrophoresis with selectively acetylated β-cyclodextrin derivatives, 373 (1998) 47

Miwa, T., see Chu, J., 370 (1998) 125

Miwa, T., see Kiba, N., 375 (1998) 65

Miwa, T., see Munaf, E., 334 (1996) 39

Miwa, T., see Munaf, E., 341 (1997) 225

Miwa, T., see Munaf, E., 379 (1999) 33

Miwa, T., see Takeuchi, T., 311 (1995) 231

Miwa, T., see Zein, R., 335 (1996) 261

Miyabayashi, A., see Dzgoev, A., 347 (1997) 87

Miyachi, H., see Sasaki, S., 363 (1998) 229

Miyada, M., see Ahsan, S., 362 (1998) 279

Miyahara, T., see Ogawa, A., 383 (1999) 221

Miyahara, Y., Yamashita, K., Ozawa, S. and Watanabe, Y., Shift and drift of electromotive forces of solid-state electrodes with ionselective liquid membranes, 331 (1996) 85

Miyake, J., see Kobayashi, M., 361 (1998) 285

Miyake, S., Ito, S., Yamaguchi, Y., Beppu, Y., Takewaki, S. and Yuasa, Y., Immunochemical approach for assay of herbicide thiobencarb, 376 (1998) 97

Miyake, S., see Morimune, K., 376 (1998) 37

Miyamae, Y., see Narusawa, Y., 309 (1995) 227

Miyasita, T., see Sugawara, K., 353 (1997) 301

Miyazaki, A., see Wenzhi, H., 322 (1996) 43

Miyazaki, J., see Ozawa, K., 365 (1998) 3 Miyazaki, R., see Hanai, T., 378 (1999) 77

Mizumachi, M., see Yokoi, K., 316 (1995) 363

Mizuno, T., see Ahsan, S., 362 (1998) 279

Mizuno, T., see Itoh, S.i., 379 (1999) 169

Mizuno, T., see Ohta, K., 329 (1996) 191

Mizutani, F., Sato, Y., Hirata, Y., Sawaguchi, T. and Yabuki, S., Glucose oxidase/polyion complex-bilayer membrane for elimination of electroactive interferents in amperometric glucose sensor, 364 (1998) 173

Mizutani, F., see Saby, C., 304 (1995) 33

Mizutani, F., Yabuki, S. and Hirata, Y., Amperometric /-lactatesensing electrode based on a polyion complex layer containing lactate oxidase. Application to serum and milk samples, 314 (1995) 233

Mizuyuki, T., see Nagaosa, Y., 311 (1995) 225

Mlakar, M., see Cuculić, V., 339 (1997) 181

Mlika, R., Dumazet, I., Gamoudi, M., Lamartine, R., Ben Ouada, H., Jaffrezic-Renault, N. and Guillaud, G., Membranes containing new large size calixarenes on semiconductor substrates for chemical microsensors, 354 (1997) 283

Mnich, U., see Gebhart, E., 377 (1998) 263

Mo, J., see Bai, Y., 373 (1998) 39

Mo, J., see Zou, Y., 382 (1999) 145

Mo, W., see Jiang, Z., 354 (1997) 359

Moberg, P., see Amarasinghe, S., 307 (1995) 227

Mochinaga, S., see Hara, S., 387 (1999) 121

Mochizuki, J., see Abe, S., 319 (1996) 387

Moder, M., see Bohanec, S., 340 (1997) 267

Moder, M., see Divjak, B., 358 (1998) 305 Moens, L., see Goossens, J., 304 (1995) 307

Moens, L., see Hu, Y., 355 (1997) 105

Moens, L., see Hu, Y., 373 (1998) 95

Moens, L., see Parent, M., 320 (1996) 1

Moens, L., see Vanhaecke, F., 383 (1999) 253

Moffat, A.C., see Eustaquio, A., 383 (1999) 283

Moges, G., see Megersa, N., 311 (1995) 183

Mohapatra, P.K., see Manchanda, V.K., 320 (1996) 151

Mohns, J. and Künnecke, W., Flow analysis with membrane separation and time based sampling for ethanol determination in beer and wine, 305 (1995) 241

Mohr, G.J. and Spichiger-Keller, U.E., Novel fluorescent sensor membranes for alcohols based on p-N,N-dioctylamino-4'-trifluoroacetylstilbene, 351 (1997) 189

Mohr, G.J. and Wolfbeis, O.S., Optical sensing of anions via polarity-sensitive dyes: a bulk sensor membrane for nitrate, 316 (1995) 239

Mohr, G.J., Draxler, S., Trznadel, K., Lehmann, F. and Lippitsch, M.E., Synthesis and characterization of fluorophore-absorber pairs for sensing of ammonia based on fluorescence, 360 (1998) 119

Mohr, G.J., Lehmann, F., Grummt, U.-W. and Spichiger-Keller, U.E., Fluorescent ligands for optical sensing of alcohols: synthesis and characterisation of p-N,N-dialkylamino-trifluoroacetyl-stilbenes, 344 (1997) 215

Mohr, G.J., see Murkovic, I., 334 (1996) 125

Mohr, G.J., see Papkovsky, D.B., 337 (1997) 201

Mohr, G.J., see Preininger, C., 334 (1996) 113

Mohr, G.J., see Preininger, C., 342 (1997) 207

Mok, C.-S., see Lau, O.-W., 302 (1995) 45

Moldovan, Z. and Vlådescu, L., Anion-exchange resin modified with pyrocatechol violet as a functional resin for retention of Sn(IV), 338 (1997) 231

Molina Díaz, A., see Fernández de Córdova, M.L., 369 (1998) 263

Molina Díaz, A., see Ortega Barrales, P., 360 (1998) 143

Molina Díaz, A., see Ortega Barrales, P., 376 (1998) 227

Molina Díaz, A., see Ruiz Medina, A., 394 (1999) 149 Molina Molina, M.F., see Nechar, M., 316 (1995) 185

Molina, A., see del Olmo, M., 335 (1996) 23

Molina, A.A., see Murillo Pulgarin, J.A., 326 (1996) 117

Molina, A.A., see Pulgarin, J.A.M., 317 (1995) 359

Molina, A.A., see Pulgarin, J.A.M., 319 (1996) 361

Molina, M.F., Bosque-Sendra, J.M., Nechar, M. and El Bergmi, R., Complexes of Zn(II) and Cd(II) with 4-(2-pyridylazo)resorcinol sorbed on sephadex QAE: characterization and theoretical study, 389 (1999) 281

Molina, M.F., see Nechar, M., 382 (1999) 117

Molina, P., see Badr, I.H., 388 (1999) 63

Molina-Díaz, A., see Ayora-Cañada, M.J., 375 (1998) 71

Molina-Diz, A., see Ortega-Barrales, P., 353 (1997) 115

Molina-Holgado, T., Pinilla-Macias, J.M. and Hernández-Hernández, L., Voltammetric determination of lead with a chemically modified carbon paste electrode with diphenylthiocarbazone, 309 (1995) 117

Molinero, A.L., "Possibilities for graphic representation of multifactor simplex optimisation", 304 (1995) 255

Molins, C., see Hoogerbrugge, R., 348 (1997) 247

Molins-Legua, C., Campíns-Falcó, P. and Sevillano Cabeza, A., Offline dansylation of amines using C<sub>18</sub> solid-phase packings: study of the fluorescence and chemiluminescence detection by postcolumn derivatization with oxalic acid bis(2, 4, 6-trichloro phenyl ester)/H<sub>2</sub>O<sub>2</sub> in liquid chromatography. Determination of amphetamines in urine samples, 378 Molins-Legua, C., see Campins-Falcó, P., 302 (1995) 323

Möller, D., see Pham, M.T., 320 (1996) 289

Möller, D., Tan, P.M., Hüller, J. and Albrecht, J., Ag\* sensitive membrane of sub-μm thickness prepared by ion implantation, 306 (1995) 1

Molloy, K.J., see Maeder, M., 337 (1997) 73

Molnar, J., see Milojevic, D., 319 (1996) 353

Momeni, N., Ramanathan, K., Larsson, P.O., Danielsson, B., Beng-mark, S. and Khayyami, M., CCD-camera based capillary che-miluminescent detection of retinol binding protein, 387 (1999)

Momiyama, M., see Fujita, S., 339 (1997) 289

Monaco, A., see Marin, B., 342 (1997) 91

Money, S.D., see Downard, A.J., 349 (1997) 111

Monjonell, A., see Díaz-Cruz, M.S., 385 (1999) 353

Monjonell, A., see Mendieta, J., 390 (1999) 15

Monna, F., Mathieu, D., Marques, A.N., Lancelot, J. and Bernat, M., A comparison of PERALS® to alpha spectrometry and beta counting: a measure of the sedimentation rate in a coastal basin, 330 (1996) 107

Monna, F., see Guéguen, C., 386 (1999) 155

Monnig, C.A., see Chiu, R.W., 307 (1995) 193

Monotti, P., see Lo Coco, F., 386 (1999) 41

Monroy Guzman, F., see Trubert, D., 374 (1998) 149

Monroy-Guzman, F., see Trubert, D., 332 (1996) 257

Monser, L.I. and Greenway, G.M., Liquid chromatographic determination of methylamines. Determination of trimethylamine in fish samples using a porous graphitic carbon stationary phase, 322 (1996) 63

Monson, S.J., Ma, L., Cassada, D.A. and Spalding, R.F., Confirmation and method development for dechlorinated atrazine from reductive dehalogenation of atrazine with Fe<sup>0</sup>, 373 (1998) 153

Montagné, M. and Marty, J.-L., Bi-enzyme amperometric ⊿-lactate sensor using macromolecular NAD\*, 315 (1995) 297

Montaudo, G., see Georgakopoulos, C.G., 359 (1998) 213

Monteau, F., see Bizec, B.L., 340 (1997) 201

Montenegro, M. Conceição B.S.M., see Couto, C.M., 366 (1998) 155

Montenegro, M.C.B.S.M., see Jun, X., 339 (1997) 231

Montenegro, M.C.B.S.M., see Lopes, T.I.M.S., 308 (1995) 122

Montenegro, M.C.B.S.M., see Martelli, P.B., 317 (1995) 239

Montenegro, M.C.B.S.M., see Xiao, J., 321 (1996) 263

Montenegro, M.C.v.B., see Luca, G.C., 366 (1998) 193

Montenegro, M.I., see Bento, M.F., 385 (1999) 365

Montero, P. and Bea, F., Accurate determination of <sup>87</sup>Rb/<sup>86</sup>Sr and <sup>147</sup>Sm/<sup>144</sup>Nd ratios by inductively-coupled-plasma mass spectrometry in isotope geoscience: an alternative to isotope dilution analysis, 358 (1998) 227

Montero, T., see Alciaturi, C.E., 340 (1997) 233

Montes, R., see Hidalgo, M., 318 (1996) 229

Montgomery, E.R. and Murray, R.W., Trace analysis of neutral organic species using thin-layer electrochemistry, 321 (1996) 105

Montlló, D., see Puig-Lleixà, C., 359 (1998) 311

Montoya, A., see Abad, A., 311 (1995) 365

Montoya, A., see Abad, A., 347 (1997) 103

Montoya, A., see González-Martínez, M.A., 347 (1997) 199

Montoya, A., see González-Martínez, M.A., 392 (1999) 113

Montoya, A., see Manclús, J.J., 311 (1995) 341

Montoya, A., see Mercader, J.V., 347 (1997) 95

Montrade, M.-P., see Bizec, B.L., 340 (1997) 201

Moo, Y.S., see Chang, H.L., 339 (1997) 303

Moo, Y.S., see Chang, H.L., 351 (1997) 57

Moo-Jeong, S., Jang-Wook, L., Chinkap, C., Gwon-Shik, I. and Daeil, H., Rapid estimation of biochemical oxygen demand using a microbial multi-staged bioreactor, 313 (1995) 221

Moore, J., see Jauhiainen, T., 389 (1999) 21

Mor, U., see Mayo, N., 310 (1995) 139

Mora, J., see Cuesta, A., 372 (1998) 399

Morabito, R., see Mester, Z., 359 (1998) 133

Morabito, R., see Mester, Z., 395 (1999) 157

Morais, H., see Rodrigues, P., 372 (1998) 411

Morais, J.A., see Gouveia, L.F., 366 (1998) 271

Morais, S., Alcaina-Miranda, M.I., Lázaro, F., Plantá, M., Maquieira, A. and Puchades, R., Evaluation of the dialysing yield of membranes with different composition. Application to the analysis of chloride in fruit juices by flow injection, 353 (1997) 245

Morais, S., see Gascón, J., 347 (1997) 149

Morais, S., see González-Martinez, M.A., 347 (1997) 199

Morales, A., Céspedes, F., Muñoz, J., Martínez-Fàbregas, E. and Alegret, S., Hydrogen peroxide amperometric biosensor based on a peroxidase-graphite-epoxy biocomposite, 332 (1996) 131

Morales, E., see Gómez-Ariza, J.L., 399 (1999) 295

Morales, F., Sicilia, D., Rubio, S. and Pérez-Bendito, D., Application of micellar effects to the simultaneous kinetic determination of pyridoxal and pyridoxal-5'-phosphate, 345 (1997) 87

Morales, M.M., Martí, P., Llopis, A., Campos, L. and Sagrado, S., An environmental study by factor analysis of surface seawaters in the Gulf of Valencia (Western Mediterranean), 394 (1999) 109

Morales-Rubio, A., Mena, M.L. and McLeod, C.W., Rapid determination of mercury in environmental materials using on-line microwave digestion and atomic fluorescence spectrometry, 308 (1995) 364

Morales-Rubio, A., see Bouhsain, Z., 330 (1996) 59

Morales-Rubio, A., see Daghbouche, Y., 345 (1997) 161

Morales-Rubio, A., see de la Guardia, M., 308 (1995) 462

Morales-Rubio, A., see Escuriola, M.J., 390 (1999) 147

Morales-Rubio, A., see F. Reis, B., 392 (1999) 265

Morán, M., see Losada, J., 338 (1997) 191

Moran, R.C., see Reis, C., 369 (1998) 269

Moreau, F., see Campiglia, A.D., 346 (1997) 361

Moreau, F., see Campiglia, A.D., 351 (1997) 229

Moreda, J.M., see Arranz, A., 351 (1997) 97

Moreda, J.M., see de Betoño, S.F., 329 (1996) 25

Moreda-Piñeiro, A., see Bermejo-Barrera, P., 310 (1995) 355

Moreda-Piñeiro, A., see Bermejo-Barrera, P., 349 (1997) 319

Moreda-Piñeiro, A., see Bermejo-Barrera, P., 368 (1998) 281

Moreda-Piñeiro, A., see Bermejo-Barrera, P., 374 (1998) 231

Moreda-Piñeiro, A., see Bermejo-Barrera, P., 398 (1999) 263

Moreda-Piñeiro, J., see Bermejo-Barrera, P., 310 (1995) 355

Moreda-Piñeiro, J., see Bermejo-Barrera, P., 349 (1997) 319

Moreda-Piñeiro, J., see Bermejo-Barrera, P., 368 (1998) 281

Moreda-Piñeiro, J., see Bermejo-Barrera, P., 374 (1998) 231

Moreira, J.C., see Barek, J., 320 (1996) 31

Moreira, J.C., see Barek, J., 356 (1997) 231

Moreira, J.C., see Lessi, P., 327 (1996) 183

Morelli, E., see Scarano, G., 319 (1996) 13

Moreno Cordero, B., see González Martín, Y., 384 (1999) 83

Moreno Gálvez, A., García Mateo, J.V. and Martínez Calatayud, J., Study of various indicating redox systems on the indirect flowinjection biamperometric determination of pharmaceuticals, 396 (1999) 161

Moreno, C., see Mánuel-Vez, M.P., 355 (1997) 157

Moreno, M.J., see Abad, A., 347 (1997) 103

Moreno-Bondi, M.C., see Marazuela, M.D., 374 (1998) 19

Moretto, L.M., see Ugo, P., 305 (1995) 74

Morf, W.E., Theoretical treatment of the amperometric current response of multiple microelectrode arrays, 330 (1996) 139

Morf, W.E., Theoretical treatment of the current vs. time response of microelectrode arrays to changes of potential, concentration, or flow, 341 (1997) 121

Morf, W.E., see Guenat, O.T., 361 (1998) 261

Morf, W.E., see Röösli, S., 338 (1997) 119

Morf, W.E., see Rothmaier, M., 327 (1996) 17

Morgan, H., see Pritchard, D.J., 310 (1995) 251

Mori, G., see Careri, M., 386 (1999) 169

Mori, G., see Martinotti, W., 305 (1995) 183

Mori, H., see Kogure, M., 337 (1997) 107

Mori, S., see Prados, P., 344 (1997) 227

Mori, Y., see Katsu, T., 343 (1997) 79

Mori, Y., see Katsu, T., 353 (1997) 151

Moriguchi, M., see Inoue, T., 330 (1996) 117

Morikawa, H., see Nakane, K., 369 (1998) 79

Morikawa, H., see Ohta, K., 359 (1998) 255

Morimoto, A., see Kawasaki, S., 365 (1998) 205

Morimune, K., Yamaguchi, Y., Beppu, Y., Miyake, S., Takewaki, S., Kawata, M. and Yuasa, Y., Easy-to-use immunoassay for the residue analysis of 2,4,5-T, 376 (1998) 37

Morino, H., see Ikeda, S., 384 (1999) 45

Moris, P., Alexandre, I., Roger, M. and Remacle, J., Chemiluminescence assays of organophosphorus and carbamate pesticides, 302 (1995) 53

Morishima, K., Arai, F., Fukuda, T., Matsuura, H. and Yoshikawa, K., Screening of single Escherichia coli in a microchannel system by electric field and laser tweezers, 365 (1998) 273

Morita, M., see Kohashi, K., 365 (1998) 177

Morita, M., see Niwa, O., 318 (1996) 167

Morita, T., see Koizumi, A., 399 (1999) 63

Morita, Y., see Koizumi, A., 399 (1999) 63

Moritz, W., Bartholomäus, L., Roth, U., Filippov, V., Vasiliev, A. and Terentjev, A., Semiconductor sensors for the detection of fluorocarbons, fluorine and hydrogen fluoride, 393 (1999) 49

Morosanova, E.I., see Zolotov, Y.A., 308 (1995) 378

Morosanova, E.I., see Zolotov, Y.A., 308 (1995) 386

Morris, A.W., see David, A.R., 361 (1998) 63

Morris, H., see Mazúr, M., 333 (1996) 249

Morris, H., see Mazúr, M., 333 (1996) 253

Morris, H., see Mazúr, M., 367 (1998) 233 Morris, H., see Mazúr, M., 373 (1998) 107

Morris, J.B., see Schweitzer, R.C., 384 (1999) 285

Morrison, G.M., see Björklund, L.B., 343 (1997) 259

Morrison, R., see Porter, N., 308 (1995) 313

Morrison, R.J., see Ranville, J.F., 381 (1999) 315

Mortimer, M.G., see Clerc, S.D., 339 (1997) 225

Mortlock, R.A. and Froelich, P.N., Determination of germanium by isotope dilution-hydride generation inductively coupled plasma mass spectrometry, 332 (1996) 277

Morzunova, T., see Makower, A., 357 (1997) 13

Mosbach, K., see Matsui, J., 335 (1996) 71

Moschou, E.A., see Chaniotakis, N.A., 356 (1997) 105

Moser, I., see Dempsey, E., 346 (1997) 341

Moskvin, L.N., see Nikonorov, V.V., 306 (1995) 357

Mosso, M., see Laganà, A., 375 (1998) 107

Mosso, S., see Abollino, O., 383 (1999) 243

Mostafavi Dehzoei, A., see Ali Taher, M., 367 (1998) 55

Mota, A.M., see Pinheiro, J.P., 329 (1996) 15

Mota, T., see Rodrigues, P., 372 (1998) 411

Motamedi, M., see McShane, M.J., 388 (1999) 251

Motellier, S. and Charles, Y., Characterization of acid-base and complexation properties of cellulose degradation products using capillary electrophoresis, 375 (1998) 243

Motohashi, R., see Samukawa, T., 316 (1995) 83

Motomizu, S. and Sanada, M., Photo-induced reduction of nitrate to nitrite and its application to the sensitive determination of nitrate in natural waters, 308 (1995) 406

Motonaka, J., Kageyama, S., Mishima, Y., Minagawa, K., Masuda, S. and Ikeda, S., Determination of iron ion utilizing poly (pvinylbenzoylacetone) modified micro-electrode, 369 (1998) 87

Motonaka, J., Katumoto, Y. and Ikeda, S., Preparation and properties of enzyme sensors for 1-lactic and D-lactic acids in optical isomers, 368 (1998) 91

Motonaka, J., see Ikeda, S., 384 (1999) 45

Motonaka, J., see Mishima, Y., 345 (1997) 45

Motonaka, J., see Mishima, Y., 358 (1998) 291

Motoya, K., see Seki, A., 382 (1999) 131

Mottola, H.A., see Janarthanan, C., 369 (1998) 147

Mottola, H.A., see Zhang-Hua, L., 329 (1996) 305

Mou, S.f., see Chen, Q.c., 371 (1998) 287

Mou, S.-f., see Li, Z.-l., 307 (1995) 79

Moulds, J., see Bin, L., 340 (1997) 175

Moulin, C., Decambox, P. and Trecani, L., Direct and fast uranium determination in zirconium by time-resolved laser-induced fluorescence spectrometry, 321 (1996) 121

Moulin, C., Larpent, C. and Gazeau, D., Interaction studies between europium and a surfactant cage "TAC8" by time-resolved laserinduced fluorescence, 378 (1999) 47

Moulin, C., Wei, J., Iseghem, P.V., Laszak, I., Plancque, G. and Moulin, V., Europium complexes investigations in natural waters by time-resolved laser-induced fluorescence, 396 (1999) 253

Moulin, V., see Moulin, C., 396 (1999) 253

Mouly, P.P., see Goiffon, J.P., 382 (1999) 39

Mourel, R.-M., see Suard, C., 318 (1996) 261

Moustafa, G.A., see Abbas, M.N., 393 (1999) 67

Mouvet, C., Broussard, S., Jeannot, R., Maciag, C., Abuknesha, R. and Ismail, G., Validation of commercially available ELISA microtiter plates for triazines in water samples, 311 (1995) 331

Mouvet, C., Harris, R.D., Maciag, C., Luff, B.J., Wilkinson, J.S., Piehler, J., Brecht, A., Gauglitz, G., Abuknesha, R. and Ismail, G., Determination of simazine in water samples by waveguide surface plasmon resonance, 338 (1997) 109

Mowat, M., see Joseph, W., 344 (1997) 111

Mrestani, Y., Neubert, R.H.H., Härtl, A. and Wohlrab, J., Determination of cephalosporins in urine and bile by capillary zone electrophoresis, 349 (1997) 207

Muck, A., see Barek, J., 393 (1999) 141

Muginova, S.V., see Shekhovtsova, T.N., 344 (1997) 145

Muguruma, H., see Sasaki, S., 363 (1998) 229

Muhammed, M., see Fang, Z., 367 (1998) 123

Muinasmaa, U., R\u00e4fols, C., Bosch, E. and Ros\u00e9s, M., Ionic equilibria in aqueous organic solvent mixtures The dissociation constants of acids and salts in tetrahydrofuran/water mixtures, 340 (1997) 133

Mujunen, S.P., see Pantsar-Kallio, M., 393 (1999) 181

Mu-Jye, C., see Jyh-Myng, Z., 310 (1995) 407

Mu-Jye, C., see Jyh-Myng, Z., 320 (1996) 43

Mukai, H., see Aoki, T., 349 (1997) 11

Mulcahy, D.E., see Chow, C.W.K., 307 (1995) 15

Mulcahy, D.E., see Chow, C.W.K., 330 (1996) 79

Mulcahy, D.E., see Chow, C.W.K., 338 (1997) 167

Mulcahy, D.E., see Kolev, S.D., 309 (1995) 293

Mulcahy, D.E., see Kolev, S.D., 329 (1996) 1

Mulcahy, D.E., see Kolev, S.D., 377 (1998) 13

Mulcahy, D.E., see Lane, R., 395 (1999) 225

Mulholland, M., see van Kampen, A.H.C., 344 (1997) 1

Mullens, J., see De Backer, A., 334 (1996) 103

Mullens, J., see Yperman, J., 395 (1999) 143

Mullens, S., see Yperman, J., 395 (1999) 143

Muller, A., see Migdall, A., 380 (1999) 311

Müller, B. and Hauser, P.C., Effect of pressure on the potentiometric response of ion-selective electrodes and reference electrodes, 320 (1996) 69

Müller, C., see Hitzmann, B., 348 (1997) 161

Müller, C., see Huff, T., 352 (1997) 239

Muller, F.L.L., Measurement of electrokinetic and size characteristics of estuarine colloids by dynamic light scattering spectroscopy, 331 (1996) 1

Müller, H., see Romberg, B., 353 (1997) 165

Müller, J., see Dankwardt, A., 362 (1998) 35

Munaf, E., see Zein, R., 335 (1996) 261

Munaf, E., Zein, R., Takeuchi, T. and Miwa, T., Microcolumn ion chromatography of inorganic monovalent cations with indirect photometric detection and a silica gel column, 334 (1996) 30

Munaf, E., Zein, R., Takeuchi, T. and Miwa, T., Application of a silica gel column for the simultaneous determination of alkali and alkaline-earth metal ions with indirect photometric detection using benzyltrimethylammonium chloride as visualization agent, 341 (1997) 225

Munaf, E., Zein, R., Takeuchi, T. and Miwa, T., Indirect photometric detection of inorganic monovalent and divalent cations by microcolumn ion chromatography using 1,1'-dimethyl-4,4'-bipyridinium dichloride as visualization agent, 379 (1999) 33

Munakata, H., see Watanabe, S., 376 (1998) 93

Muñiz, C.S., see Marchante-Gayón, J.M., 400 (1999) 307

Muñoz de la Peña, A., see Escandar, G.M., 370 (1998) 199

Muñoz de la Peña, A., see Goicoechea, H.C., 384 (1999) 95

Muñoz Leyva, J.A., see Rodriguez, I.N., 344 (1997) 167

Muñoz, A., Mas Torres, F., Estela, J.M. and Cerda, V., Evaluation of spectrophotometric methods for determination of orthophosphates by sequential injection analysis, 350 (1997) 21

Muñoz, J., see Morales, A., 332 (1996) 131

Muñoz, J.A., see Casabó, J., 320 (1996) 63

Muñoz, M., see Flor, T., 375 (1998) 127

Muñoz, M., see Garcia-Valls, R., 387 (1999) 77

Muñoz, M., see Palet, C., 343 (1997) 287

Munro, W.A., Paul Thomas, C.L. and Langford, M.L., Characterisation of the molecular ions produced by a dinitroalkane in positive mode ion mobility spectrometry with water, dichloromethane and ammonia reactant ion chemistries, 374 (1998) 253

Munro, W.A., Paul Thomas, C.L. and Langford, M.L., Characterisation of the ion mobility spectrometric behaviour of a dinitrobutane under varying conditions of temperature and concentration, 375 (1998) 49

Muntau, H., see Mester, Z., 395 (1999) 157

Munteanu, F.D., see Gorton, L., 400 (1999) 91

Murachi, S., see Shu-Xiu, Z., 314 (1995) 193

Murahashi, T. and Hayakawa, K., A sensitive method for the determination of 6-nitrochrysene, 2-nitro-fluoranthene and 1-, 2- and 4-nitropyrenes in airborne particulates using high-performance liquid chromatography with chemiluminescence detection, 343 (1997) 251

Murai, R., see Matsumoto, K., 358 (1998) 127

Murakami, E., see Ohto, K., 341 (1997) 275

Murakami, H., see Yanagihara, H., 335 (1996) 63

Murakami, S., Ito, K., Goto, T., Kamada, S. and Maeda, M., Bioluminescent enzyme immunoassay using thermostable mutant luciferase and acetate kinase as a labelled enzyme, 361 (1998) 19

Murakami, S., see Ito, K., 382 (1999) 245

Murakami, S., see Saito, K., 378 (1999) 43

Murakami, Y., see Koizumi, A., 399 (1999) 63

Muramatsu, H., see Choi, K.J., 386 (1999) 229

Murao, T., see Yokoyama, T., 398 (1999) 75

Murase, S., see Kubo, H., 389 (1999) 89

Murata, K., Kawakami, K., Matsunaga, Y. and Yamashita, S., Determination of sulfate in brackish waters by laser Raman spectroscopy, 344 (1997) 153

Muratsugu, M., Romaschin, A.D. and Thompson, M., Adhesion of human platelets to collagen detected by 51Cr labelling and acoustic wave sensor, 342 (1997) 23

Muresan, L., see Gaspar, S., 385 (1999) 111

Murillo Pulgarin, J.A., Molina, A.A. and López, P.F., Direct determination of triamterene in urine by matrix isopotential synchronous fluorescence spectrometry, 326 (1996) 117

Murillo Pulgarín, J.A., Alañón Molina, A. and Fernández López, P., Simultaneous determination of atenolol, propranolol, dipyridamole and amiloride by means of non-linear variable-angle synchronous fluorescence spectrometry, 370 (1998) 9

Murillo Pulgarín, J.A., Alañón Molina, A. and Fernández López, P., Phosphorimetric determination of nafronyl in pharmaceutical preparations, 382 (1999) 77

Murimboh, J., see Mandal, R., 395 (1999) 309

Murimboh, J., see Mandal, R., 395 (1999) 323

Murkovic, I., Lobnik, A., Mohr, G.J. and Wolfbeis, O.S., Fluorescent potential-sensitive dyes for use in solid state sensors for potassium ion, 334 (1996) 125

Murkovic, I., see Lobnik, A., 367 (1998) 159

Muromatsu, A., see Saito, K., 378 (1999) 43

Murphy, P.P., see Feely, R.A., 377 (1998) 185

Murray, G.M., see Bae, S.Y., 397 (1999) 173

Murray, R.W., see Montgomery, E.R., 321 (1996) 195

Murtaza, Z., see Qing, C., 350 (1997) 97

Murthy, A.S.N. and Sharma, J., Glucose oxidase bound to selfassembled monolayers of bis(4-pyridyl) disulfide at a gold electrode: Amperometric determination of glucose, 363 (1998) 215

Musashi, M., Markl, G. and Kreulen, R., Stable chlorine-isotope analysis of rock samples: New aspects of chlorine extraction, 362 (1998) 261

Musci, M., see Careri, M., 386 (1999) 169

Mussenbrock, E., see Jülicher, P., 315 (1995) 279

Mustan, N. and Hall, E.A., Examination of an immunoglobulin modified methacrylate copolymer for amperometric immunoassay, 396 (1999) 171

Muszalska, E. and Bilewicz, R., Renewable electrode surfaces for monitoring CO2 based on adsorptive accumulation of catalyst, 334 (1996) 309

Mwalupindi, A.G. and Warner, I.M., Determination of theophylline by liquid chromatography with sensitized lanthanide luminescence detection, 306 (1995) 49

Myasoedov. B.F., see Kolytcheva, N.V., 357 (1997) 231

Myler, S., Eaton, S. and Higson, S.P., Poly(o-phenylenediamine) ultra-thin polymer-film composite membranes for enzyme electrodes, 357 (1997) 55

Na, L., see Wei, Z., 316 (1995) 387

Nabuchi, Y., Fujiwara, E., Kuboniwa, H., Asoh, Y. and Ushio, H., Kinetic study of methionine oxidation in human parathyroid hormone, 365 (1998) 301

Nadzhafova, O.Yu., see Belikov, K.N., 383 (1999) 277

Naessens, M. and Tran-Minh, C., Whole-cell biosensor for determination of volatile organic compounds in the form of aerosols, 364 (1998) 153

Nagai, A., see Awazu, K., 365 (1998) 193

Nagamatsu, T., see Katsu, T., 354 (1997) 301

Nagaoka, T., see Kawasaki, S., 365 (1998) 205

Nagaosa, Y. and Kimata, Y., High-performance liquid chromatography with electrochemical detection for the determination of vanadium(V) in river water and mussel samples, 327 (1996) 203

Nagaosa, Y. and Mizuyuki, T., Determination of Cu(II) and Ni(II) as chelates with butyl xanthate by liquid chromatography with electrochemical and spectrophotometric detection, 311 (1995)

Nagaosa, Y., Taniguchi, M. and Miura, J., Hydrophobic salt-induced phase-separation and extraction for sample preparation in chromatographic determination of heavy metal ions as dibenzyldithiocarbamates, 356 (1997) 135

Nagaraj, S., see Min, G., 342 (1997) 145

Nagashima, K., see Kamaya, M., 362 (1998) 157

Nagashima, K., see Kamaya, M., 384 (1999) 215

Nagashima, K., see Nakano, N., 302 (1995) 201

Nagashima, K., see Nakano, N., 334 (1996) 221

Nagashima, K., see Nakano, N., 398 (1999) 305

Nagata, R., Clark, S.A., Yokoyama, K., Tamiya, E. and Karube, I., Amperometric glucose biosensor manufactured by a printing technique, 304 (1995) 157

Nagata, R., see Sasaki, S., 368 (1998) 71

Nagatomy, H.R., see Masini, J.C., 364 (1998) 223

Nagels, L.J., see Poels, I., 370 (1998) 105

Nagels, L.J., see Poels, I., 385 (1999) 417

Nagy, A., Nagy, G. and Fehér, Z., Investigation of a novel chronopotentiometric detection method using a redox mediator modified carbon electrode, 310 (1995) 241

Nagy, G., Kapui, I. and Gorton, L., Effect of surface-active agents on amperometric NADH measurements with chemically modified electrodes, 305 (1995) 65

Nagy, G., see Nagy, A., 310 (1995) 241

Nagy, G., see Tóth, K., 353 (1997) 1

Nagy, G., Tóth, K., Fehér, Z. and Kunovits, J., Novel potentiometric monitoring combined with coulometric reagent generation, 319 (1996) 49

Nagy, G., Xu, C.X., Buck, R.P., Lindner, E., Neuman, M.R. and Sprinkle, R.H., Wet and dry chemistry kits for total creatine kinase activity using a microfabricated, planar, small-volume, amperometric cell, 377 (1998) 1

Nagy, V.Y. and Sokolov, D.P., Choosing reference samples for EPR concentration measurements. Part 2. Systems of S=1, 339 (1997) 13

Nagy, V.Y., Choosing reference samples for EPR concentration measurements. Part 1. General introduction and systems of S=12, 339 (1997) 1

Nagy, V.Y., Komozin, P.N. and Desrosiers, M.F., Choosing reference samples for EPR concentration measurements. Part 3. Systems of S=32, 339 (1997) 31

Nagy, V.Y., Sokolov, D.P. and Desrosiers, M.F., Choosing reference samples for EPR concentration measurements. Part 4. Systems of S=52, 339 (1997) 53

Naitoh, K., see Kamei, T., 365 (1998) 259

Naitoh, K., see Kamei, T., 365 (1998) 319

Nai-Yuen, C., see Jyh-Myng, Z., 310 (1995) 407

Naka, H., see Takeda, K., 377 (1998) 47

Nakagiri, T., see Yano, K., 357 (1997) 91

Nakai, Y., see Kitamura, K., 304 (1995) 101

Nakajima, K., Ohta, K. and Takada, T., Study on the vaporisation of sulphur-containing amino acids in a hydrogen flame by use of molecular emission cavity analysis and liquid chromatography, 309 (1995) 163

Nakajima, K., Ohta, K. and Takada, T., Study on S<sub>2</sub> emission response from sulphones and sulphonic acids in molecular emission cavity analysis, 315 (1995) 371

Nakamura, H., see Fukushima, M., 302 (1995) 365

Nakamura, H., see Fukushima, M., 317 (1995) 195

Nakamura, H., see Fukushima, M., 322 (1996) 173

Nakamura, K., see Hirakawa, Y., 389 (1999) 69

Nakamura, K., see Noda, H., 302 (1995) 335

Nakamura, K.i. and Sugawara, Y., Fine separation of protein isoforms with alternative development in two-dimensional electrophoresis, 365 (1998) 267

Nakamura, K.i., see Sugawara, Y., 365 (1998) 293

Nakamura, M.S., see Masini, J.C., 364 (1998) 223

Nakamura, N., see Lim, T.K., 354 (1997) 29

Nakamura, N., see Lim, T.k., 370 (1998) 207

Nakamura, Y., see Mawatari, K.i., 363 (1998) 133

Nakane, K., Uwamino, Y., Morikawa, H., Tsuge, A. and Ishizuka, T., Determination of trace impurities in high-purity aluminium oxide by high resolution inductively coupled plasma mass spectrometry, 369 (1998) 79

Nakanishi, K., Karube, I., Hiroshi, S., Uchida, A. and Ishida, Y., Detection of the red tide-causing plankton Chattonella marina using a piezoelectric immunosensor, 325 (1996) 73

Nakanishi, K., see Ikebukuro, K., 329 (1996) 111

Nakano, K., see Yokoyama, T., 396 (1999) 117

Nakano, N., Development of a monitoring tape for nitrogen dioxide in air, 321 (1996) 41 Nakano, N., Inoue, M. and Nagashima, K., Erratum to "Development of a monitoring tape for nitrogen dioxide in air" [Anal. Chim. Acta, 321 (1996) 41], 334 (1996) 221

Nakano, N., Sugata, K. and Nagashima, K., Development of a monitoring tape for ammonia gas in air by fluorescence detection, 302 (1995) 201

Nakano, N., Yamamoto, A., Kobayashi, Y. and Nagashima, K., An automatic measurement of hydrogen cyanide in air by a monitoring tape method, 398 (1999) 305

Nakano, S., see Watanabe, T., 374 (1998) 303

Nakaoka, K., see Ogura, K., 384 (1999) 219

Nakashima, K., see Al-Dirbashi, O., 365 (1998) 169

Nakashima, K., see Kamei, T., 365 (1998) 259

Nakashima, K., see Zhang, X.R., 303 (1995) 121

Nakashima, K., Yamasaki, H., Kuroda, N. and Akiyama, S., Evaluation of lophine derivatives as chemiluminogens by a flow-injection method, 303 (1995) 103

Nakata, S., Ozaki, E. and Ojima, N., Gas sensing based on the dynamic nonlinear responses of a semiconductor gas sensor: dependence on the range and frequency of a cyclic temperature change, 361 (1998) 93

Nakayama, E., see Okamura, K., 377 (1998) 125

Nakayama, E., see Sohrin, Y., 363 (1998) 11

Nakayama, M., see Ogura, K., 384 (1999) 219

Nakayasu, K., see Fukushima, M., 317 (1995) 195

Nakayasu, K., see Tanaka, S., 337 (1997) 351

Nakazawa, H., see Kubo, H., 389 (1999) 89

Nakazawa, H., see Watanabe, T., 341 (1997) 257 Nakazawa, H., see Watanabe, T., 386 (1999) 69

Nakazawa, H., Yamada, T., Watanabe, T., Yamamoto, A., Matsunaga, A. and Nishimura, M., Measurement of enantiomeric purity by ratio chromatograms with a photometric detector using quartz plates as a multiple retarder, 396 (1999) 125

Nakwatchara, L., see Chimpalee, N., 329 (1996) 315

Nakwatchara, L., see Chimpalee, N., 331 (1996) 253

Nam, H., see Jun Yoon, I., 367 (1998) 175

Nankov, N., see Stoytcheva, M., 315 (1995) 101

Nara, O., Effective purification of ellagic acid by successive automatic recrystallization and absolute determination of purity by absorptivity ratio, 338 (1997) 247

Naranjo-Rodríguez, I., see del Mar Cordero-Rando, M., 370 (1998)

Narasaiah, D., see Spohn, U., 319 (1996) 79

Narasaki, H., see Feng, Y.L., 375 (1998) 167

Narasaki, H., see Feng, Y.L., 386 (1999) 297

Narayanaswamy, R., see Taib, M.N., 330 (1996) 31

Narinesingh, D., Saroop, S. and Ngo, T.T., A fluorescence flow injection method for the quantitation of cyanide: its application to the quantitation of bound cyanide in cassava using an immobilized linamarase bioreactor, 354 (1997) 189

Narusawa, Y. and Miyamae, Y., Evidence of axial diffusion accompanied by axial dispersion with zone circulating flow-injection analysis data, 309 (1995) 227

Narváez, A., see Parellada, J., 362 (1998) 47

Nascimento, O.R., see Tominaga, T.T., 315 (1995) 217

Nascimento, V.B., see Lima, A.W., 354 (1997) 325

Naser, N., see Joseph, W., 316 (1995) 253

Nau, G., see Ewing, K.J., 340 (1997) 227

Naulet, N., see Jamin, E., 347 (1997) 359

Navalón, A., see Capitán-Vallvey, L.F., 302 (1995) 193

Navalón, A., see Luis Vilchez, J., 371 (1998) 247

Navarro-Villoslada, F., Pérez-Arribas, L.V., León-González, M.E. and Polo-Díez, L.M., Matrix effect modelling in multivariate determination of priority pollutant chlorophenols in urine samples, 381 (1999) 93

Navarro-Villoslada, F., Pérez-Arribas, L.V., León-González, M.E. and Polo-Diez, L.M., Preconcentration and flow-injection multivariate determination of priority pollutant chlorophenols, 308 (1995) 238

Navarro-Villoslada, F., Pérez-Arribas, L.V., León-González, M.E. and Polo-Díez, L.M., Selection of calibration mixtures and wavelengths for different multivariate calibration methods, 313 (1995) 93

Navas Díaz, A., García Sánchez, F. and Torijas, M.C., Phasemodulation fluorescence lifetime resolution of quinine and quinidine by ion-pair diastereomeric complexation, 381 (1999) 11

Navas Díaz, A., Ramos Peinado, M.C. and Torijas Minguez, M.C., Sol-gel horseradish peroxidase biosensor for hydrogen peroxide detection by chemiluminescence, 363 (1998) 221

Navas Díaz, A., see García Sánchez, F., 378 (1999) 219

Navas Díaz, A., see García Sánchez, F., 395 (1999) 133

Navas Díaz, A., see García Sánchez, F., 328 (1996) 73

Navas, N.A., see del Olmo, M., 346 (1997) 87

Navrátilová, Z., see Kula, P., 385 (1999) 91

Nawrocki, J., Carr, P.W., Annen, M.J. and Froelicher, S., A TGA investigation of hydrated monoclinic zirconia, 327 (1996) 261

Nazarenko, A.Y., see Lamb, J.D., 373 (1998) 167

Neal, M.J., see Goodacre, R., 313 (1995) 25

Neal, S.L. and Villegas, M.M., Comparing organized media types using fluorescence probe characterization methods, 307 (1995) 419

Neal, T.J., Alvarado, J.S., Smith, L.L. and Erickson, M.D., Microwave dissolution of plant tissue and the subsequent determination of trace lanthanide and actinide elements by inductively coupled plasma-mass spectrometry, 322 (1996) 11

Nechar, M., Molina Molina, M.F., Rodriguez, L.C. and Sendra, J.M.B., The application of Doehlert designs in the optimization of experimental variables in solid phase spectrophotometry, 316 (1995) 185

Nechar, M., Molina, M.F. and Bosque-Sendra, J.M., Application of Doehlert optimization and factorial designs in developing and validating a solid-phase spectrophotometric determination of trace levels of cadmium, 382 (1999) 117

Nechar, M., see Molina, M.F., 389 (1999) 281

Nedeltcheva, T., Determination of oxygen stoichiometry in YBCO superconductors by spectrophotometry, 312 (1995) 223

Nedeltcheva, T., Costadinova, L., Simeonova, P. and Lovchinov, V., Rapid and simple spectrophotometric determination of oxygen stoichiometry in YBCO superconducting materials, 336 (1996) 223

Nedeltcheva, T., see Chavdarova, R., 353 (1997) 325

Nedeltcheva, T., Simeonova, P. and Lovchinov, V., Improved iodometric method for simultaneous determination of non-stoichiometric oxygen and total copper content in YBCO superconductors, 312 (1995) 227

Nedjar-Arroume, N., see Ruckebusch, C., 396 (1999) 241

Negoro, Y., see Hirose, K., 365 (1998) 137

Negro, G., see Aruga, R., 310 (1995) 15

Neidhart, B., see Holcombe, D.G., 393 (1999) 157

Neikov, A. and Sokolov, S., Generalized model for enzyme amperometric biosensors, 307 (1995) 27

Nelson, M.R., see Horwitz, E.P., 310 (1995) 63

Némethy, S., see Csapó, J., 339 (1997) 99

Neshkova, M., Petrova, R. and Petrov, V., Piezoelectric quartz crystal humidity sensor using chemically modified nitrated polystyrene as water sorbing coating, 332 (1996) 93

Neshkova, M.T., Kirkova, A.A., Cattrall, R.W., Gregorio, C.G. and Bond, A.M., Flow injection discrimination of the chloride interference with Cu(II) electrode function of chalcogenide based solid-state copper ion-selective electrodes, 362 (1998) 221

Nesterenko, P., see Paull, B., 375 (1998) 117

Netchiporouk, L.I., Shul'ga, A.A., Jaffrezic-Renault, N., Martelet, C., Olier, R. and Cespuglio, R., Properties of carbon fibre microelectrodes as a basis for enzyme biosensors, 303 (1995) 275

Neto, G.d.O., see Duarte, M.M.M.B., 350 (1997) 353

Neto, G.d.O., see Fernandes, J.C.B., 366 (1998) 11

Neto, G.d.O., see Fernandes, J.C.B., 385 (1999) 3

Neto, G.d.O., see Rover Jr., L., 366 (1998) 103

Neto, J.A.G., Bergamin F<sup>o</sup>, H., Zagatto, E.A.G. and Krug, F.J., Determination of cadmium in fertilizers by flow-injection spectrophotometry, 308 (1995) 439

Neto, J.A.G., Filho, H.B., Sartini, R.P. and Zagatto, E.A.G., Determination of cadmium in foodstuffs and plant materials by flow injection-spectrophotometry including ion exchange, 306 (1995) 343

Neto, J.A.G., see Brienza, S.M.B., 308 (1995) 269

Neto, J.A.G., see Martelli, P.B., 317 (1995) 239

Neubauer, U. and Furrer, G., The use of voltammetry for sorption studies of heavy metals on mineral surfaces in presence of the siderophore desferrioxamine B, 392 (1999) 159

Neubert, R.H.H., see Mrestani, Y., 349 (1997) 207

Neuhauser, R.E., Panne, U. and Niessner, R., Laser-induced plasma spectroscopy (LIPS): a versatile tool for monitoring heavy metal aerosols, 392 (1999) 47

Neuhauser, R.E., Panne, U., Niessner, R., Petrucci, G.A., Cavalli, P. and Omenetto, N., On-line and in-situ detection of lead aerosols by plasma-spectroscopy and laser-excited atomic fluorescence spectroscopy, 346 (1997) 37

Neuman, M.R., see Cosofret, V.V., 314 (1995) 1

Neuman, M.R., see Marzouk, S.A., 363 (1998) 57

Neuman, M.R., see Nagy, G., 377 (1998) 1

Neumayr, M., Sontag, G. and Pittner, F., Enzymatic sensor coupled to a flow-injection analysis system for the determination of salicylate, 305 (1995) 26

Neurauter, G., Klimant, I. and Wolfbeis, O.S., Microsecond lifetimebased optical carbon dioxide sensor using luminescence resonance energy transfer, 382 (1999) 67

Nevado, J.J.B., Flores, J.R. and Peñalvo, G.C., Simultaneous spectrophotometric determination of ethinylestradiol and levonorgestrel by partial least squares and principal component regression multivariate calibration, 340 (1997) 257

Newcombe, D.T., Cardwell, T.J., Cattrall, R.W. and Kolev, S.D., Dissociation of Ferroin in acidic solutions and Nafion<sup>π</sup> membranes, 395 (1999) 27

Newman, J.D., see White, S.F., 321 (1996) 165

Newman, O. Michael G., see Bond, A.M., 372 (1998) 307

Ng, A., see Zhiqiang, G., 343 (1997) 49

Ng, S.C., see Zhou, X.C., 345 (1997) 29

Ngo, T.T., see Narinesingh, D., 354 (1997) 189

Nguyen Quang, H., Jouan, M. and Quy Dao, N., A simplified calibration model of spectral data for quantitative analyses with different Raman spectrometers, 379 (1999) 159

Nguyen, A.-L., Detection of polychlorinated biphenyls by photoactivated fluorescence and by sensitized laser photolysis, 319 (1996) 221

Nguyen, T., McNamara, K.P. and Rosenzweig, Z., Optochemical sensing by immobilizing fluorophore-encapsulating liposomes in sol-gel thin films, 400 (1999) 45

Ni, J.A., Ju, H.X., Chen, H.Y. and Leech, D., Amperometric determination of epinephrine with an osmium complex and Nafion double-layer membrane modified electrode, 378 (1999) 151

Ni, J.Y., see Liu, Z., 378 (1999) 73

Ni, Y. and Gong, X., Simultaneous spectrophotometric determination of mixtures of food colorants, 354 (1997) 163

Ni, Y. and Liu, C., Artificial neural networks and multivariate calibration for spectrophotometric differential kinetic determinations of food antioxidants, 396 (1999) 221

Ni, Y. and Peng, Z., Determination of mixed metal ions by complexometric titration and nonlinear partial least squares calibration. 304 (1995) 217

Ni, Y. and Wu, A., Simultaneous determination of halide and thiocyanate ions by potentiometric precipitation titration and multivariate calibration, 390 (1999) 117

Ni, Y. and Wu, Y., Simultaneous determination of mixtures of metal ions by complexometric titration and multivariate calibration, 354 (1997) 233

Ni, Y., Simultaneous determination of mixtures of acids by potentiometric titration, 367 (1998) 145

Ni, Z.m., see Chen, Q.c., 371 (1998) 287

Ni, Z.-m., see Li, Z.-l., 307 (1995) 79

Ni, Z.M., see Liao, Y.P., 360 (1998) 209

Nianqin, J., see Jinghe, Y., 325 (1996) 195

Nianyi, C., see Jiali, W., 333 (1996) 125

Nibbering, N.M.M., see Miermans, C.J.H., 340 (1997) 5

Nicholls, I.A., see Matsui, J., 335 (1996) 71

Nicholls, I.A., see Matsui, J., 365 (1998) 89

Nicholson, F.J., see Strachan, N.J.C., 313 (1995) 63

Nickson, R.A., Hill, S.J. and Worsfold, P.J., Behaviour of matrix cations (Ca<sup>2+</sup>, K\*, Mg<sup>2+</sup> and Na\*) during on-line preconcentration and atomic spectrometric detection of trace metals in natural waters, 351 (1997) 311

Nicolini, C., see Piras, L., 335 (1996) 127

Nie, L., see Liu, D., 307 (1995) 61

Nie, L., see Long, Y., 395 (1999) 33

Nie, L.-h., see Su, X.-l., 349 (1997) 143

Niebes, M., see Simeonsson, J.B., 397 (1999) 33

Nielsen, J., see Rong, W.M., 312 (1995) 149

Nielsen, J., see Rong, W.M., 320 (1996) 199

Nielsen, P., see Wang, J., 347 (1997) 1

Nielsen, P.E., see Joseph, W., 344 (1997) 111

Nielsen, S. and Hansen, E.H., Determination of As(III) and As(V) by flow injection-hydride generation-atomic absorption spectrometry via on-line reduction of As(V) by KI, 343 (1997) 5

Nielsen, S. and Hansen, E.H., Selective flow-injection quantification of ultra-trace amounts of Cr(VI) via on-line complexation and preconcentration with APDC followed by determination by electrothermal atomic absorption spectrometry, 366 (1998) 163

Nieman, T.A., see Forbes, G.A., 347 (1997) 289

Nieman, T.A., see Ridlen, J.S., 341 (1997) 195

Nieman, T.A., see Won-Yong, L., 334 (1996) 183

Niessner, R., see Cichna, M., 339 (1997) 241

Niessner, R., see Haisch, C., 346 (1997) 23

Niessner, R., see Heiss, C., 396 (1999) 309

Niessner, R., see Knopp, D., 399 (1999) 115

Niessner, R., see Neuhauser, R.E., 346 (1997) 37

Niessner, R., see Neuhauser, R.E., 392 (1999) 47

Niessner, R., see Székács, A., 399 (1999) 127 Niessner, R., see Weller, M.G., 393 (1999) 29

Nieto, O., see Hernández, P., 305 (1995) 340

Nigretto, J.-M., see Arkoub, I.A., 340 (1997) 99

Nijhuis, A., van der Knaap, H.C.M., de Jong, S. and Vandeginste, B.G.M., Strategy for ruggedness tests in chromatographic method validation, 391 (1999) 187

Nikokavouras, J., see Papadopoulos, K., 304 (1995) 91

Nikolelis, D.P., see Andreou, V.G., 350 (1997) 121

Nikolelis, D.P., see Chiang, K.L., 357 (1997) 73

Nikolelis, D.P., see Siontorou, C.G., 355 (1997) 227

Nikolskaya, E.B., see Yagodina, O.V., 385 (1999) 137

Nikonorov, V.V. and Moskvin, L.N., Spectrophotometric determination of nitrite with 4-iodo-N,N-dimethylaniline, 306 (1995) 357

Nilsson, M., see Karlström, H., 315 (1995) 1

Nilsson, N.H., see Simpson, S.L., 359 (1998) 329

Nilsson, N.H.S., see Simpson, S.L., 343 (1997) 19

Nilsson, T., Ferrari, R. and Facchetti, S., Inter-laboratory studies for the validation of solid-phase microextraction for the quantitative analysis of volatile organic compounds in aqueous samples, 356 (1997) 113

Nimmo, M., see Braungardt, C., 377 (1998) 205

Nimmo, M., see Whitworth, D.J., 371 (1998) 235

Nimmo, M., see Whitworth, D.J., 377 (1998) 217

Nimmo, M., see Whitworth, D.-J., 392 (1999) 3

Nimura, N., see Hanai, T., 332 (1996) 213

Nishi, K., see Kane, M., 383 (1999) 157

Nishide, H., see Röösli, S., 338 (1997) 119

Nishihara, H., see Hisamoto, H., 304 (1995) 171

Nishikawa, F., see Fauzi, H., 365 (1998) 309

Nishikawa, H., see Sakai, T., 308 (1995) 329

Nishikawa, S., see Fauzi, H., 365 (1998) 309

Nishikawa, Y. and Okumura, T., Determination of nitrobenzenes in river water, sediment and fish samples by gas chromatographymass spectrometry, 312 (1995) 45 Nishikawa, Y., see Okumura, T., 325 (1996) 175

Nishimoto, J., see Uchiyama, S., 351 (1997) 259

Nishimoto, J., see Yokoyama, T., 398 (1999) 75

Nishimura, A., see Kane, M., 383 (1999) 157

Nishimura, A., see Nukatsuka, I., 304 (1995) 243

Nishimura, M., see Nakazawa, H., 396 (1999) 125 Nishiyama, K., see Mawatari, K.i., 363 (1998) 133

Nishizawa, S., Bühlmann, P., Xiao, K.P. and Umezawa, Y., Application of a bis-thiourea ionophore for an anion selective electrode with a remarkable sulfate selectivity, 358 (1998) 35

Nistor, C., Emnéus, J., Gorton, L. and Ciucu, A., Improved stability and altered selectivity of tyrosinase based graphite electrodes for detection of phenolic compounds, 387 (1999) 309

Nitescu, I., see Cumming, R., 311 (1995) 377

Nitescu, I., see Rowell, F.J., 316 (1995) 247

Nitsch, K., see Málková, Z., 355 (1997) 171

Nivens, D.A., Zhang, Y. and Angel, S. Michael, A fiber-optic pH sensor prepared using a base-catalyzed organo-silica sol-gel, 376 (1998) 235

Nivet, J.C., see Hubert, P., 391 (1999) 135

Niwa, O., Horiuchi, T., Morita, M., Tiehua, H. and Kissinger, P.T., Determination of acetylcholine and choline with platinum-black ultramicroarray electrodes using liquid chromatography with a post-column enzyme reactor, 318 (1996) 167

Niwa, T., see Yuchi, A., 388 (1999) 201

Noah, J., see Koziel, J., 400 (1999) 153

Nóbrega, J.A., see Oliveira, A.F., 366 (1998) 281

Noda, H., Nakamura, K., Takada, M. and Imasaka, T., Supersonic jet absorption spectrometry utilizing a xenon flashlamp and a monochromator equipped with a photodiode array, 302 (1995)

Noe, W., see Beyer, K., 309 (1995) 301

Nogueira, A.R.A., see Silva, F.V., 370 (1998) 39

Noguer, T. and Marty, J.-L., High sensitive bienzymic sensor for the detection of dithiocarbamate fungicides, 347 (1997)

Noguera-Ortí, J.F., Villanueva-Camañas, R.M. and Ramis-Ramos, G., Direct injection of edible oils as microemulsions in a micellar mobile phase applied to the liquid chromatographic determination of synthetic antioxidants, 387 (1999) 127

Noh, B.S., see Lee, D.S., 358 (1998) 163

Nohta, H., see Ishida, J., 346 (1997) 175

Nohta, H., Yukizawa, T., Ohkura, Y., Yoshimura, M., Ishida, J. and Yamaguchi, M., Aromatic glycinonitriles and methylamines as pre-column fluorescence derivatization reagents for catecholamines, 344 (1997) 233

Noij, T., see Houben, A., 399 (1999) 69

Nojiri, T., see Saito, K., 378 (1999) 43

Nokihara, K., Procedures leading to primary structure determination of proteins in complex mixtures by gel electrophoresis and modern micro-scale analyses, 372 (1998) 21

Nolan, K., see O'Neill, S., 398 (1999) 1

Nolting, R.F., see de Jong, J.T.M., 377 (1998) 113

Nomura, M., see Oi, T., 340 (1997) 221

Nomura, T. and Egawa, T., Adsorption determination of ionic surfactants using an electrode-separated piezoelectric quartz crystal, 339 (1997) 187

Nomura, T. and Sato, A., Adsorptive determination of copper(II) in solution as an ion-pair of bisneocuproinecopper(I) and dodecylsulfate ions on an electrode-separated piezoelectric quartz crystal, 374 (1998) 291

Nomura, T., Kumagai, M. and Sato, A., Adsorptive determination of copper(II) in solution as its N,N-diethyldithiocarbamate on an electrode-separated piezoelectric quartz crystal, 343 (1997) 209

Nomura, Y., see Chee, G.J., 379 (1999) 185

Nomura, Y., see Chee, G.J., 394 (1999) 65

Nomura, Y., see Ikebukuro, K., 329 (1996) 111

Nomura, Y., see Lee, K.H., 386 (1999) 211

Nomura, Y., see Lee, K.H., 398 (1999) 161

Nong Fu, R., see Wang, H., 359 (1998) 39

Noord, O.E.d., see Pasti, L., 364 (1998) 253 Nordén, B., see Karlström, H., 315 (1995) 1

Nordling, M., see Tessema, M., 349 (1997) 179

Nosov, R.E., see Dmitrienko, S.G., 373 (1998) 131

Nouros, P.G., A. Georgiou, C. and Polissiou, M.G., Direct parallel flow injection multichannel spectrophotometric determination of olive oil peroxide value, 389 (1999) 239

Nouros, P.G., Georgiou, C.A. and Polissiou, M.G., Automated flow injection spectrophotometric non-aqueous titrimetric determination of the free fatty acid content of olive oil, 351 (1997) 291

Novák, J., see Málková, Z., 355 (1997) 171

Novelli, V., see Lo Coco, F., 306 (1995) 57

Novic, M., Berregi, I., Ríos, A. and Valcárcel, M., A new sampleinjection/sample-dilution system for the flow-injection analytical technique, 381 (1999) 287

Novič, M., Novič, M., Zupan, J., Zafran, N. and Pihlar, B., Simultaneous determination of iron(II) and iron(III) by flow injection analysis A mathematical simulation of the detector response, 348 (1997) 101

Novič, M., see Cai, X., 310 (1995) 153

Novič, M., see Novič, M., 348 (1997) 101

Novič, M., see Pompe, M., 348 (1997) 215

Novič, M., see Vračko, M., 384 (1999) 319

Novič, M., see Zupan, J., 348 (1997) 409

Novič, M., see Zupan, J., 388 (1999) 243 Novotná, Z., see Sajdok, J., 315 (1995) 109

Novotny, F.J., Eischen, J.M. and Rice, J.A., Applicability of fastatom bombardment mass spectrometry to the characterization of fulvic acid, 392 (1999) 319

Novotny, I., see Riepl, M., 392 (1999) 77

Novotný, L., see Kopanica, M., 368 (1998) 211

Novotný, L., see Krista, J., 386 (1999) 221

Nowak, M. and Seubert, A., Ultra-trace determination of bromate in drinking waters by means of microbore column ion chromatography and on-line coupling with inductively coupled plasma mass spectrometry, 359 (1998) 193

Nozaki, Y., see Okamura, K., 377 (1998) 125

Nozawa, S., see Katayama, M., 303 (1995) 333

Nørgaard, L., see Bechmann, I.E., 304 (1995) 229

Nriagu, J.O., see Lin, T.S., 395 (1999) 301

Nuijens, M.J., Zomer, M., Mank, A.J.G., Gooijer, C., Velthorst, N.H. and Hofstraat, J.W., A cyanine fluorophore with a hydrazide functionality as labelling reagent for aldehydes in liquid chromatography, 311 (1995) 47

Nukatsuka, I., Nishimura, A. and Ohzeki, K., Determination of molybdenum in sea water by solid-phase spectrophotometry, 304 (1995) 243

Numan, A.q., see Crowder, M.W., 384 (1999) 127

Numata, M., see Sasaki, S., 347 (1997) 275

Nunes Fernandes, R., see de Azevedo Tumang, C., 374 (1998) 53
Nunes, G.S., Barceló, D., Grabaric, B.S., Díaz-Cruz, J.M. and Ribeiro, M.L., Evaluation of a highly sensitive amperometric biosensor with low cholinesterase charge immobilized on a chemically modified carbon paste electrode for trace determination of carbamates in fruit, vegetable and water samples, 399 (1999) 37

Nunes, G.S., Marco, M.-P., Farré, M. and Barceló, D., Direct application of an enzyme-linked immunosorbent assay method for carbaryl determination in fruits and vegetables. Comparison with a liquid chromatography—postcolumn reaction fluorescence detection method, 387 (1999) 245

Nunes, G.S., Skládal, P., Yamanaka, H. and Barceló, D., Determination of carbamate residues in crop samples by cholinesterasebased biosensors and chromatographic techniques, 362 (1998) 59

Núñez, C.G., see Amárita Vega, F., 373 (1998) 57

Nurchi, V.M., see Aragoni, M.C., 316 (1995) 195

Nygren, J., see Elbergali, A., 379 (1999) 143

Nygren, J., see Kubista, M., 302 (1995) 121

Nyholm, L. and Björefors, F., Stability of preplated mercury coated platinum and carbon fibre microelectrodes, 327 (1996) 211

Nyholm, L., see Björefors, F., 325 (1996) 11

Nyholm, L., see Matysik, F.M., 385 (1999) 409

Nyholm, L., see Wallenborg, S.R., 344 (1997) 77

Nyman, J. and Ivaska, A., Spectrophotometric determination of calcium in paper machine white water by sequential injection analysis, 308 (1995) 286

Nyokong, T., see Lack, B., 385 (1999) 393

Nyokong, T., see Limson, J., 344 (1997) 87

Nyokong, T., see Mafatle, T., 354 (1997) 307

# 0

O'Brian, T.R., see Early, E.A., 380 (1999) 143

O'Brien, G.E., see Sturrock, P.E., 324 (1996) 135

O'Connell, G.R., see Cardwell, T.J., 308 (1995) 197

O'Connell, P.J., O'Sullivan, C.K. and Guilbault, G.G., Electrochemical metallisation of carbon electrodes, 373 (1998) 261

O'Connor, G., see Louise Armstrong, H.E., 390 (1999) 245

O'Hanlon, K., see Ebdon, L., 311 (1995) 123

O'Kane, E., see McGrath, G.J., 322 (1996) 159

O'Kane, E., see Oxspring, D.A., 317 (1995) 295

O'Keeffe, M., Dunemann, L., Theobald, A. and Svehla, G., Capillary electrophoresis in speciation analysis. Investigations of metal-polyaminopolycarboxylate complexes and effects of metals on proteins, 306 (1995) 91

O'Kennedy, R., see Bin, L., 331 (1996) 97

O'Kennedy, R., see Bin, L., 340 (1997) 175

O'Kennedy, R., see Bin, L., 345 (1997) 59

O'Kennedy, R., see Deasy, B., 310 (1995) 101

O'Leary, P., see Trinkel, M., 320 (1996) 235

O'Neill, R.M., see Wring, S.A., 334 (1996) 225

O'Sullivan, B., see Akhtar, P., 381 (1999) 49

O'Sullivan, B., see Downard, A.J., 345 (1997) 5

O'Sullivan, C., see Crowley, E., 389 (1999) 171

O'Sullivan, C.K., see Kreuzer, M.P., 393 (1999) 95

O'Sullivan, C.K., see O'Connell, P.J., 373 (1998) 261

Oba, K., see Tanaka, S., 337 (1997) 351

Obata, H., see Okamura, K., 377 (1998) 125

Obata, H., see Sohrin, Y., 363 (1998) 11

Obendorf, D., see Reichart, E., 360 (1998) 179

Obreckt, D., see Huber, W., 393 (1999) 213

Obrezkov, O.N., see Pirogov, A.V., 369 (1998) 47 O'Briant, S.P., see Houlne, M.P., 397 (1999) 267

Ochsenkühn, K.M., see Ochsenkühn-Petropulu, M., 319 (1996) 249

Ochsenkühn-Petropulu, M. and Schramel, P., On-line ion exchange system coupled to inductively coupled plasma atomic emission spectrometer with ultrasonic nebulization for the separation, preconcentration and determination of arsenic(V) and monomethylarsonate, 313 (1995) 243

Ochsenkühn-Petropulu, M., Lyberopulu, T. and Parissakis, G., Selective separation and determination of scandium from yttrium and lanthanides in red mud by a combined ion exchange/solvent extraction method, 315 (1995) 231

Ochsenkühn-Petropulu, M., Lyberopulu, T., Ochsenkühn, K.M. and Parissakis, G., Recovery of lanthanides and yttrium from red mud by selective leaching, 319 (1996) 249

Ochsenkühn-Petropulu, M., Varsamis, J. and Parissakis, G., Speciation of arsenobetaine in marine organisms using a selective leaching/digestion procedure and hydride generation atomic absorption spectrometry, 337 (1997) 323

Oda, H., see Watanabe, K., 316 (1995) 371

Odagiri, T., see Oi, T., 340 (1997) 221

Oehme, I., see Lobnik, A., 367 (1998) 159

Oelkrug, D., see Uhl, S., 303 (1995) 17

Oepkemeier, S., Schreiber, S., Breuer, D., Key, G. and Kleiböhmer, W., Determination of permethrin in indoor air by liquid chromatography with enzyme linked immunosorbent assay, 393 (1999) 103

Ofner, B. and Wintersteiger, R., Minimization of plasma interferences by liquid chromatography with electrochemical detection after ultraviolet irradiation using chlordiazepoxide as a model substance, 305 (1995) 318

Ogata, T., see Fukushima, M., 322 (1996) 173

Ogawa, A., Arai, H., Tanizawa, H., Miyahara, T. and Toyo'oka, T., On-line screening method for antioxidants by liquid chromatography with chemiluminescence detection, 383 (1999) 221

Ogawa, M., see Hara, H., 364 (1998) 117

Ogawa, T., see Inoue, T., 330 (1996) 117

Ogawa, T., see Watanabe, T., 386 (1999) 69

Ogawa, Y., see Sakao, S., 355 (1997) 121

Ogden, I.D., see Strachan, N.J.C., 313 (1995) 63

Ogorevc, B., Cai, X. and Grabec, I., Determination of traces of copper by anodic stripping voltammetry after its preconcentration via an ion-exchange route at carbon paste electrodes modified with vermiculite, 305 (1995) 176

Ogorevc, B., see Cai, X., 310 (1995) 153

Ogorevc, B., see De Backer, A., 334 (1996) 103

Ogorevc, B., see Tavčar, G., 329 (1996) 239

Ogorevc, B., see Zhang, X., 378 (1999) 135

Ogunseitan, A., see Rechnitz, G.A., 337 (1997) 297

Ogura, K., Nakaoka, K., Nakayama, M., Kobayashi, M. and Fujii, A., Thermogravimetry/mass spectrometry of urease-immobilized sol-gel silica and the application of such a urease-modified electrode to the potentiometric determination of urea, 384 (1999) 219

Ohashi, A., Tsukahara, S. and Watarai, H., Acid-catalyzed interfacial complexation in the extraction kinetics of palladium(II) with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol, 364 (1998) 53

Ohashi, A., Tsukahara, S. and Watarai, H., Isomer recognizing adsorption of palladium(II)-2-(5-bromo-2-pyridylazo)-5-diethy-laminophenol with diazine derivatives at the toluene–water interface, 394 (1999) 23

Ohba, Y., Kai, M. and Zaitsu, K., Simultaneous determination of 7-methylguanine and O<sup>6</sup>-methylguanine in DNA by liquid chromatography with postcolumn fluorescence derivatization using 3,4-dimethoxyphenylglyoxal, 365 (1998) 233

Ohhashi, T., see Kamei, T., 365 (1998) 319

Ohji, K., see Yokoyama, T., 364 (1998) 75

Ohkawa, H., see Sasaki, S., 363 (1998) 229

Ohkuma, H., Abe, K., Kosaka, Y. and Maeda, M., Simultaneous assay of pepsinogen I and pepsinogen II in serum by bioluminescent enzyme immunoassay using two kinds of *Luciola later*alis luciferase, 395 (1999) 265

Ohkura, Y., see Kai, M., 352 (1997) 103

Ohkura, Y., see Nohta, H., 344 (1997) 233

Ohmi, H., see Higashi, T., 365 (1998) 151

Ohno, N., see Sakai, T., 308 (1995) 329

Ohno, N., see Sakai, T., 308 (1995) 446

Ohno, T., see Okawa, Y., 315 (1995) 137

Oh-oka, H., see Kobayashi, M., 365 (1998) 199

Ohta, H., see Sakai, T., 308 (1995) 446

Ohta, K. and Tanaka, K., Simultaneous determination of common inorganic anions, magnesium and calcium ions in various environmental waters by indirect UV-photometric detection ion chromatography using trimellitic acid-EDTA as eluent, 373 (1998) 189

Ohta, K. and Tanaka, K., Simultaneous determination of common mono- and divalent cations in natural water samples by conductimetric detection ion chromatography with an unmodified silica gel column and oxalic acid/18-crown-6 as eluent, 381 (1999) 265

Ohta, K., Koike, Y. and Mizuno, T., Determination of zinc in biological materials by sequential metal vapor elution analysis with atomic absorption detection, 329 (1996) 191

Ohta, K., Morikawa, H., Tanaka, K., Uryu, Y., Paull, B. and Haddad, P.R., Ion chromatographic behavior of alkali and alkaline earth metal cations on silica gel columns with cation exchange characteristics, 359 (1998) 255

Ohta, K., see Ahsan, S., 362 (1998) 279

Ohta, K., see Itoh, S.i., 379 (1999) 169

Ohta, K., see Nakajima, K., 309 (1995) 163

Ohta, K., see Nakajima, K., 315 (1995) 371

Ohta, K., see Samukawa, T., 316 (1995) 83

Ohto, K., Fujimoto, Y. and Inoue, K., Stepwise extraction of two lead ions with a single molecule of calix[4]arene tetracarboxylic acid, 387 (1999) 61

Ohto, K., Murakami, E., Shinohara, T., Shiratsuchi, K., Inoue, K. and Iwasaki, M., Selective extraction of silver(I) over palladium(II) with ketonic derivatives of calixarenes from highly concentrated nitric acid, 341 (1997) 275

Ohto, K., see Inoue, K., 388 (1999) 209

Ohyama, Y., see Terato, H., 365 (1998) 183

Ohzeki, K., see Nukatsuka, I., 304 (1995) 243

Oi, T., Odagiri, T. and Nomura, M., Extraction of lithium from GSJ rock reference samples and determination of their lithium isotopic compositions, 340 (1997) 221

Oi-wah, L., Bing, S. and Wuming, Z., Evaluation of methods to minimize effects of liquid viscosity and density on the oscillating frequencies of thickness-shear-mode (TSM) piezoelectric resonators, 312 (1995) 217

Oizumi, J., see Hayakawa, K., 372 (1998) 281

Ojala, M., see Ketola, R.A., 349 (1997) 359

Ojima, N., see Nakata, S., 361 (1998) 93

Okada, K., see Watanabe, K., 316 (1995) 371

Okada, S., see Tanimoto, T., 365 (1998) 285

Okada, T., Multifunctional separation with polyamine-bonded resin, 303 (1995) 193

Okada, T., see Li-Xian, S., 329 (1996) 57

Okada, T., see Tanigawa, M., 365 (1998) 19

Okamoto, Y., see Ma, D., 390 (1999) 201

Okamoto, Y., see Rajendran, V., 373 (1998) 241

Okamoto, Y., see Tao, S., 309 (1995) 379

Okamura, K., Gamo, T., Obata, H., Nakayama, E., Karatani, H. and Nozaki, Y., Selective and sensitive determination of trace manganese in sea water by flow through technique using luminolhydrogen peroxide chemiluminescence detection, 377 (1998) 125

Okawa, Y., Kobayashi, H. and Ohno, T., Direct and simultaneous determination of uric acid and glucose in serum with electrochemical filter/biosensor flow-injection analysis system, 315 (1995) 137

Okazaki, Y., see Minami, T., 372 (1998) 241

Okemgbo, A.A., Hill, H.H., Metcalf, S.G. and Bachelor, M., Metal ion interferences in reverse polarity capillary zone electrophoretic analysis of Hanford Defense Waste for ethylenediaminetetraacetic acid (EDTA) and n-hydroxyethylethylenediaminetriacetic acid (HEDTA), 396 (1999) 105

Okumura, T. and Nishikawa, Y., Gas chromatography-mass spectrometry determination of triclosans in water, sediment and fish samples via methylation with diazomethane, 325 (1996) 175

Okumura, T., see Nishikawa, Y., 312 (1995) 45

Okura, I., see Lee, S.-K., 342 (1997) 181

Okutani, T., see Kubota, T., 351 (1997) 319

Okutani, T., see Minamisawa, H., 378 (1999) 279

Okutani, T., see Minamisawa, H., 398 (1999) 289

Okutani, T., see Sakuragawa, A., 374 (1998) 191

Okuzaki, J., see Takeda, K., 377 (1998) 47

Oldham, K.B., see Huang, W., 304 (1995) 1

Oleksy-Frenzel, J. and Jekel, M., On-line multicomponent determination of organic compounds in water following gel permeation chromatographic separation, 319 (1996) 165 Olieman, C., see Meisel, H., 372 (1998) 291

Olier, R., see Netchiporouk, L.I., 303 (1995) 275

Olivé, J., Mànuel, A., Rodriguez, P. and Grimalt, J.O., A low cost, open and flexible on-line data acquisition system for instrumental chromatography, 306 (1995) 285

Oliveira Brett, A.M., Macedo, T.R.A., Raimundo, D., Marques, M.H. and Serrano, S.H.P., Electrochemical oxidation of mitoxantrone at a glassy carbon electrode, 385 (1999) 401

Oliveira, A.F., Fatibello-Filho, O., Diniz, M.C.T. and Nóbrega, J.A., Sequential determinations by confluent reagent introduction in the sample loop: system characteristics and applications, 366 (1998) 281

Oliveira, C.C., Sartini, R.P., Reis, B.F. and Zagatto, E.A.G., Multicommutation in flow analysis. Part 4. Computer-assisted splitting for spectrophotometric determination of copper and zinc in plants, 332 (1996) 173

Oliveira, C.C., Sartini, R.P., Zagatto, E.A.G. and Fontes da Costa Lima, J.L., Flow analysis with accuracy assessment, 350 (1997) 31

Oliveira, C.C., see Sartini, R.P., 366 (1998) 119

Oliveira, C.C., see Zagatto, E.A., 400 (1999) 249

Oliveira, C.J.S., see da Silva, J.C.G.E., 349 (1997) 23

Oliveira, J.A.B.P., see Gomes, M.T.S.R., 335 (1996) 235

Oliveira, J.P., see Gomes, M.T., 327 (1996) 95

Oliveira, P.V., see Silva, M.M., 368 (1998) 255

Olivera, S., see Rodrigues, P., 372 (1998) 411

Olivieri, A.C., see Goicoechea, H.C., 384 (1999) 95

Olk, R.-M., see Lubert, K.-H., 336 (1996) 77

Ollison, W.M., see Penrose, W.R., 313 (1995) 209 Olšauskaite, V., see Padarauskas, A., 374 (1998) 159

Olsen, C., see Wang, J., 385 (1999) 429

Olsen, G.A., see Hughes, K.D., 307 (1995) 393

Olsen, K., see Wang, J., 310 (1995) 223

Olsen, K., see Wang, J., 310 (1995) 223 Olsen, K., see Wang, J., 385 (1999) 429

Olsen, K.G., see Creager, S.E., 307 (1995) 277

Olsina, R., see Vicente, O., 366 (1998) 201

Olsina, R.A., see Lapierre, A.V., 396 (1999) 143

Olsina, R.A., see Silva, M.F., 342 (1997) 229

Olson, D.C., see Aldstadt, J.H., 338 (1997) 215

Olsson, J.C., see Kuban, P., 337 (1997) 117

Olsson, R.J.O., see Karlsson, M., 312 (1995) 107

Omanović, D., Peharec, Ž., Pižeta, I., Brug, G. and Branica, M., A new mercury drop electrode for trace metal analysis, 339 (1997) 147

Omanović, D., see Pižeta, I., 331 (1996) 125

Omenetto, N., see Neuhauser, R.E., 346 (1997) 37

Omoda, N., see Watanabe, S., 376 (1998) 93

Omote, J., Kohno, H. and Toda, K., X-Ray fluorescence analysis utilizing the fundamental parameter method for the determination of the elemental composition in plant samples, 307 (1995) 117

Oms, M.T., Cerdà, A. and Cerdà, V., Sequential injection analysis of nitrites and nitrates, 315 (1995) 321

Oms, M.T., Cerdà, A., Cladera, A., Cerdà, V. and Forteza, R., Gas diffusion techniques coupled sequential injection analysis for selective determination of ammonium, 318 (1996) 251

Oms, M.T., see Cerdà, A., 311 (1995) 165

Oms, M.T., see Cerdà, A., 351 (1997) 273

Oms, M.T., see Cerdà, A., 371 (1998) 63

Omura, K., see Darwish, I., 365 (1998) 121

Ondeyka, J., see Tsipouras, A., 316 (1995) 161

O'Neill, S., Conway, S., Twellmeyer, J., Egan, O., Nolan, K. and Diamond, D., Ion-selective optode membranes using 9-(4-diethy-lamino-2-octadecanoatestyryl)-acridine acidochromic dye, 398 (1990) 1

Onitsuka, M., see Samukawa, T., 316 (1995) 83

Önnerfjord, P., see Gascón, J., 330 (1996) 41

Ono, A., see Kondo, H., 394 (1999) 293

Ono, N., see Hara, S., 387 (1999) 121

Onor, M., see Fuoco, R., 346 (1997) 81

Onuma, N., see Ikebukuro, K., 329 (1996) 111

Onur, F., see Dinc, E., 359 (1998) 93

Ooms, K., see Verberckmoes, A.A., 348 (1997) 267

Opekar, F. and Štulík, K., Electrochemical sensors with solid polymer electrolytes, 385 (1999) 151

Opekar, F., Jelínek, I. and Trojánek, A., Effect of AC voltage frequency on the sensitivity of conductometric detection in microseparation techniques, 390 (1999) 101

Opekar, F., see Li, T., 360 (1998) 53

Opravilová, M., see Kotouček, M., 329 (1996) 73

Orellana, R.C., see Martinez, R.C., 336 (1996) 47

Orlanska, I., see Wierzchowski, J., 319 (1996) 209

Ors, R., see Peris, M., 354 (1997) 249

Ortega Barrales, P., Fernández de Córdova, M.L. and Molina Díaz, A., Indirect determination of ascorbic acid by solid-phase spectrophotometry, 360 (1998) 143

Ortega Barrales, P., Fernández de Córdova, M.L. and Molina Díaz, A., A selective optosensor for UV spectrophotometric determination of thiamine in the presence of other vitamins B, 376 (1998) 227

Ortega Barrales, P., see Fernández de Córdova, M.L., 369 (1998) 263

Ortega-Barrales, P., Molina-Díz, A., Pascual-Reguera, M.I. and Capitán-Vallvey, L.F., Solid-phase spectrophotometric determination of trace amounts of hydrazine at sub-ng ml<sup>-1</sup> level, 353 (1997) 115

Ortiz Viana, M. Mar, da Silva, M. Pilar, Agraz, R., Procopio, J.R., Sevilla, M. Teresa and Hernandez, L., Comparison of two kinetic approaches for copper speciation using ion-exchange columns and ion-exchange modified carbon paste electrodes, 382 (1999) 179

Ortiz, A., see Haro, I., 303 (1995) 57

Ortiz, J.M., see Guiberteau, A., 305 (1995) 219

Ortiz, M.C., see Arcos, M.J., 339 (1997) 63

Ortiz, M.C., see Herrero, A., 348 (1997) 51

Ortiz, M.C., see Sarabia, L.A., 348 (1997) 11

Ortuño, J.A., see Sánchez-Pedreño, C., 315 (1995) 63

Ortuño, J.A., see Sánchez-Pedreño, C., 333 (1996) 107

Osa, T., see He, P., 337 (1997) 217

Oshida, K., see Mawatari, K.-i., 302 (1995) 179

Osman, A., see Dimov, N., 323 (1996) 15

Ostacoli, G., see Aruga, R., 310 (1995) 15

Ostacoli, G., see Gulmini, M., 329 (1996) 33

Ostacoli, G., see Gulmini, M., 358 (1998) 195

Ostapczuk, P., see León, C., 356 (1997) 99

Ostapczuk, P., see Pinilla Gil, E., 389 (1999) 9

Osteryoung, J.G. and Wikiel, K.J., Determination of salmon calcitonin by square wave adsorptive stripping voltammetry, 351 (1997) 65

Östman, C., see Becker, G., 340 (1997) 181

Oszwałdowski, S., Lipka, R. and Jarosz, M., Simultaneous determination of zirconium and hafnium as ternary complexes with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol and fluoride by reversed-phase liquid chromatography, 361 (1998) 177

Otaki, N., see Minami, T., 372 (1998) 241

Othman, A.H.M., see Hassan, S.S., 378 (1999) 299

Othman, A.H.M., see Hassan, S.S.M., 332 (1996) 39

Otte, X., Lejeune, R. and Thunus, L., Fourier transform infrared spectrometry (FTIR) for qualitative and quantitative analysis of azodicarboxamide and its potential impurities, 355 (1997) 7

Otvos, L., see Hoffmann, R., 352 (1997) 319

Otvos, L., see Hoffmann, R., 352 (1997) 327

Ou, Q., see Fan, X., 367 (1998) 81

Ou, Q., see You, J., 382 (1999) 51

Ou, Q., see You, J., 391 (1999) 43

Oubiña, A., Ballesteros, B., Galve, R., Barcelo, D. and Marco, M.-P., Development and optimization of an indirect enzyme-linked immunosorbent assay for 4-nitrophenol. Application to the analysis of certified water samples, 387 (1999) 255

Oubiña, A., Barceló, D. and Marco, M.P., Effect of competitor design on immunoassay specificity: Development and evaluation of an enzyme-linked immunosorbent assay for 2,4-dinitrophenol, 387 (1999) 267

Oubiña, A., Gascón, J. and Barceló, D., Multianalyte effect in the determination of cross-reactivities of pesticide immunoassays in water matrices, 347 (1997) 121

Oubina, A., Puig, D., Gascón, J. and Barceló, D., Determination of pentachlorophenol in certified waste waters, soil samples and industrial effluents using ELISA and liquid solid extraction followed by liquid chromatography, 346 (1997) 49

Oubiña, A., see Barceló, D., 376 (1998) 49

Oubiña, A., see Brecht, A., 362 (1998) 69

Oubiña, A., see Gascón, J., 330 (1996) 41

Oubiña, A., see Gascón, J., 347 (1997) 149

Ouguenoune, H., see Paneli, M., 304 (1995) 177

Ouguerram, L., see Le Botlan, D.J., 349 (1997) 339

Oumada, F.Z., Rosés, M., Bosch, E. and Abraham, M.H., Solutesolvent interactions in normal-phase liquid chromatography: a linear free-energy relationships study, 382 (1999) 301

Oungpipat, W., Alexander, P.W. and Southwell-Keely, P., A reagentless amperometric biosensor for hydrogen peroxide determination based on asparagus tissue and ferrocene mediation, 309 (1995) 35

Ounnar, S. and Righezza, M., Study of the influence of *N*-benzy-lideneanilines conformation on retention in normal phase liquid chromatography, 356 (1997) 187

Ouyang, H., see Li, C., 374 (1998) 93

Ouyang, J., Baeyens, W.R.G., Delanghe, J., Van Der Weken, G., Van Daele, W., De Keukeleire, D. and García Campaña, A.M., Chemiluminescence-based liquid chromatographic determination of hydrochlorothiazide and captopril, 386 (1999) 257

Ouyang, J., Delanghe, J., Baeyens, W.R.G. and Langlois, M., Application of Western-blotting technique with chemiluminescence imaging to the study of haptoglobin type and haptoglobin complexes, 362 (1998) 113

Overbeke, A.V., Aboul-Enein, H.Y., Baeyens, W., Van der Weken, G. and Dewaele, C., Enantiomeric separation of some piperidine-2,6-dione drugs on tolylcellulose by liquid chromatography, 346

Owens, G.S., see LaCourse, W.R., 307 (1995) 301

Oxspring, D.A., Maxwell, T.J. and Smyth, W.F., UV-visible spectrophotometric, adsorptive stripping voltammetric and capillary electrophoretic study of 2-(5'-bromo-2'-pyridylazo)-5-diethylaminophenol and its chelates with selected metal ions: application to the determination of Co(III) in vitamin B<sub>12</sub>, 323 (1996) 97

Oxspring, D.A., McClean, S., O'Kane, E. and Smyth, W.F., Study of the chelation of boron with Azomethine H by differential pulse polarography, liquid chromatography and capillary electrophoresis and its analytical applications, 317 (1995) 295

Oxspring, D.A., see Farry, L., 349 (1997) 221

Oyama, N., see Tatsuma, T., 318 (1996) 297

Ozaki, E., see Nakata, S., 361 (1998) 93

Ozawa, K., Fukano, Y., Azuma, T., Masumoto, Y., Hayashi, H., Tamura, A., Miyazaki, J.i. and Masujima, T., Simultaneous analysis of membrane potential and calcium mobilization in a pancreatic B-cell line MIN6 by use of a double-probe imaging microscope-system, 365 (1998) 3

Ozawa, K., see Tamura, A., 365 (1998) 115

Ozawa, S., see Miyahara, Y., 331 (1996) 85

Özel, M.Z., Burford, M.D., Clifford, A.A., Bartle, K.D., Shadrin, A., Smart, N.G. and Tinker, N.D., Supercritical fluid extraction of cobalt with fluorinated and non-fluorinated β-diketones, 346 (1997) 73

Ozsoz, M., see Wang, J., 347 (1997) 1

Ozsoz, M., see Wang, J., 349 (1997) 77

### P

Paakkanen, H., see Kotiaho, T., 309 (1995) 317

Paama, L., Peramäki, P. and Lajunen, L.H.J., Analysis of superconductor oxides YBa<sub>2</sub>Cu<sub>3</sub>O<sub>8-x</sub> by inductively coupled plasma atomic emission spectrometry and complexometric titration, 330 (1996) 259

Paaso, N., see Peuravuori, J., 391 (1999) 331

Paatero, E., see Sundqvist, S., 391 (1999) 269

Paatero, E.Y.O., see Heikka, R.A., 349 (1997) 287

Paatero, P., see Xie, Y., 392 (1999) 347

Pablos, F., see Carrera, F., 370 (1998) 131

Pablos, F., see González-Arjona, D., 381 (1999) 257

Pablos, F., see Martin, M.J., 320 (1996) 191

Pablos, F., see Martin, M.J., 358 (1998) 177

Pacáková, V., see Štulík, K., 352 (1997) 1

Pacey, G.E., see Farrell, S., 313 (1995) 121

Pack, B.W., Hieftje, G.M. and Jin, Q., Use of an air/argon microwave plasma torch for the detection of tetraethyllead, 383 (1999) 231

Packer, A.P., see Giné, M.F., 323 (1996) 47

Packham, A.J., see Economou, A., 319 (1996) 3

Padarauskas, A., Olšauskaite, V. and Paliulionyte, V., New electrolyte system for the determination of ammonium, alkali and alkaline earth cations by capillary electrophoresis, 374 (1998) 159Padarauskas, A., see Pozdniakova, S., 351 (1997) 41

Padeste, C., Grubelnik, A. and Tiefenauer, L., Amperometric immunosensing using microperoxidase MP-11 antibody conjugates, 374 (1998) 167

Padilla, I., see Coedo, A.G., 340 (1997) 31

Padilla, I., see Coedo, A.G., 389 (1999) 247

Padró, A., see Dagnac, T., 364 (1998) 19

Padró, A., see Rubio, R., 353 (1997) 91

Padró, A., see Toribio, M., 380 (1999) 83

Paeng, K.J., see Jun Yoon, I., 367 (1998) 175

Paeng, K.J., see Poplawski, M.E., 355 (1997) 249

Paeschke, M., see Lisdat, F., 368 (1998) 233

Paeschke, M., Wollenberger, U., Köhler, C., Lisec, T., Schnakenberg, U. and Hintsche, R., Properties of interdigital electrode arrays with different geometries, 305 (1995) 126

Páez-Hernández, M.E., see Lachowicz, E., 327 (1996) 175

Pagano, M., Application of electrophoresis and related methods, such as western blotting and zymography to the study of some proteins and enzymes, 383 (1999) 119

Page, A.G., see Kulkarni, M.J., 370 (1998) 163

Page, J.S., see Dahlgren, R.L., 400 (1999) 13

Pagès, J., see Blanco, M., 383 (1999) 291

Pagès, J., see Blanco, M., 384 (1999) 207

Paim, A.P.S., see Vieira, J.A., 366 (1998) 251

Paimin, R., see Argiropoulos, G., 360 (1998) 167

Pakniat, M., see Safavi, A., 335 (1996) 227

Pakniat, M., see Safavi, A., 335 (1996) 275

Pal. A., see Stokes, D.L., 399 (1999) 265

Pal, T., Anantha Narayanan, V., Stokes, D.L. and Vo-Dinh, T., Surface-enhanced Raman detection of nicotinamide in vitamin tablets, 368 (1998) 21

Palacios, M.A., Gómez, M., Cámara, C. and López, M.A., Stability studies of arsenate, monomethylarsonate, dimethylarsinate, arsenobetaine and arsenocholine in deionized water, urine and clean-up dry residue from urine samples and determination by liquid chromatography with microwave-assisted oxidationhydride generation atomic absorption spectrometric detection, 340 (1997) 209

Palacios, M.A., see Gómez, M.M., 374 (1998) 241

Palchetti, I., Cagnini, A., Del Carlo, M., Coppi, C., Mascini, M. and Turner, A.P.F., Determination of anticholinesterase pesticides in real samples using a disposable biosensor, 337 (1997) 315

Palchetti, I., see Koncki, R., 385 (1999) 451

Paleček, E., see Cai, X., 344 (1997) 65

Paleček, E., see Fojta, M., 342 (1997) 1

Palecek, E., see Joseph, W., 344 (1997) 111

Paleček, E., see Marín, D., 358 (1998) 45 Palecek, E., see Wang, J., 347 (1997) 1

Paleček, E., see Xiaohua, C., 332 (1996) 49

Palet, C., Muñoz, M., Valiente, M., Cynkowski, T., Daunert, S. and Bachas, L.G., Selective membrane transport of dicarboxylic acids in their neutral form by a synthetic receptor containing amidopyridine groups, 343 (1997) 287 Palet, C., see Rosell, A., 349 (1997) 171

Palet, C., see Rosell, A., 370 (1998) 141

Palilis, L.P., Calokerinos, A.C. and Grekas, N., Chemiluminescence arising from the oxidation of bilirubin in aqueous media, 333 (1996) 267

Paliteiro, C., see Redinha, J.S., 351 (1997) 115

Paliulionyte, V., see Padarauskas, A., 374 (1998) 159

Palleschi, G., see Antiochia, R., 345 (1997) 17

Palleschi, G., see Cremisini, C., 311 (1995) 273

Palma, M. and Taylor, L.T., Statistical design for optimization of extraction of polyphenols from an inert matrix using carbon dioxide-based fluids, 391 (1999) 321

Palmer, D.A. and Miller, J.N., Thiophilic gels: applications in flowinjection immunoassays for macromolecules and haptens, 303 (1995) 223

Palmisano, F., see De Benedetto, G.E., 326 (1996) 149

Palmisano, F., see De Benedetto, G.E., 389 (1999) 197

Palmisano, F., see Zambonin, C.G., 329 (1996) 143

Palomeque, M.E., Lista, A.G. and Band, B.S. Fernández, Determination of V(V) by a kinetic stopped-flow FIA method with spectrophotometric detection, 366 (1998) 287

Palumbo, P.A. and Weber, W.L., Novel spectrophotometer for the measurement of color and appearance, 380 (1999) 243

Palva, L., see Manoochehri, F., 380 (1999) 327

Pałys, M.J., Rostek, E. and Stojek, Z., Voltammetric investigation of the complexation equilibria in the presence of a low level of supporting electrolyte. Experiments with an inert complex, 377 (1998) 29

Pałys, M.J., Stojek, Z., Bos, M. and van der Linden, W.E., Voltammetric investigation of the complexation equilibria in the presence of a low level of supporting electrolyte Part 1: Steady-state current-potential curves for inert complexes, 337 (1997) 5

Pamidi, P.V., see Wang, J., 360 (1998) 171

Pamidi, P.V.A., see Chen, Q., 306 (1995) 201

Pamidi, P.V.A., see Wang, J., 330 (1996) 151

Pan, J., see Yang, R., 314 (1995) 95

Pan, J., see Zhou, G., 307 (1995) 49

Panadero, S., Gómez-Hens, A. and Pérez-Bendito, D., Stopped flow kinetic determination of nalidixic acid and norfloxacin based on lanthanide-sensitized fluorescence, 303 (1995) 39

Panadero, S., Gómez-Hens, A. and Pérez-Bendito, D., Kinetic determination of salicylic acid, diflunisal and their mixture based on lanthanide-sensitized luminescence, 329 (1996) 135

Panadero, S., see Sendra, B., 355 (1997) 145

Panayiotou, H. and Kokot, S., Matching and discrimination of single human-scalp hairs by FT-IR micro-spectroscopy and chemometrics, 392 (1999) 223

Panayotova, M., see Stoytcheva, M., 364 (1998) 195

Panday, V.K., Becker, J.S. and Dietze, H.-J., Determination of trace impurities in tantalum by inductively coupled plasma mass spectrometry after removal of the matrix by liquid-liquid extraction, 329 (1996) 153

Pandey, S., Acree, W.E. and Fetzer, J.C., Spectrochemical investigations in molecularly organized solvent media: evaluation of nitromethane as a selective fluorescence quenching agent for alternant PAHs dissolved in micellar solvent media, 324 (1996) 175 Paneli, M., Ouguenoune, H., David, F. and Bolyos, A., Study of the reduction mechanism and the adsorption properties of uranium(VI)-cupferron complexes using various electrochemical techniques, 304 (1995) 177

Pang, D.W., see Zhao, Y.D., 388 (1999) 93

Paniz, J.N., see Machado, E.L., 380 (1999) 93

Panne, U., see Haisch, C., 346 (1997) 23

Panne, U., see Neuhauser, R.E., 346 (1997) 37

Panne, U., see Neuhauser, R.E., 392 (1999) 47

Pannier, F., Astruc, A. and Astruc, M., Determination of butyltin compounds in marine biological samples by enzymatic hydrolysis and HG-GC-QFAAS detection, 327 (1996) 287

Pantaler, R.P., see Ivkova, T.I., 395 (1999) 213

Pantazaki, A., Taverna, M. and Vidal-Madjar, C., Recent advances in the capillary electrophoresis of recombinant glycoproteins, 383 (1999) 137

Pantsar-Kallio, M. and Manninen, P.K., Speciation of halogenides and oxyhalogens by ion chromatography-inductively coupled plasma mass spectrometry, 360 (1998) 161

Pantsar-Kallio, M. and Manninen, P.K.G., Determination of sodium, potassium, calcium and magnesium cations by capillary electrophoresis compared with ion chromatography, 314 (1995) 67

Pantsar-Kallio, M. and Manninen, P.K.G., Speciation of chromium in aquatic samples by coupled column ion chromatographyinductively coupled plasma-mass spectrometry, 318 (1996) 335

Pantsar-Kallio, M., Mujunen, S.P., Hatzimihalis, G., Koutoufides, P., Minkkinen, P., Wilkie, P.J. and Connor, M.A., Multivariate data analysis of key pollutants in sewage samples: a case study, 393 (1999) 181

Paolesse, R., see Brunink, J.A.J., 325 (1996) 53

Paolesse, R., see Di Natale, C., 384 (1999) 249

Papadakis, I., Taylor, P.D.P. and De Bièvre, P., SI-traceable values for cadmium and lead concentration in the candidate reference material, MURST-ISS A1 Antarctic sediment, by combination of ICP-MS with isotope dilution, 346 (1997) 17

Papadopoulos, K., Nikokavouras, J., Mitsoulis, K. and Dimotikali, D., Chemiluminescence of protected hemiaminal N-methoxymethyl-N'-methyl-9.9'-biacridylidene in homogeneous and micellar media. Prospects for analytical applications, 304 (1995) 91

Papadopoulos, N., Lemos, M.A.N.D.A. and Pombeiro, A.J.L., Time resolved polarography. Study of the EC mechanism, 306 (1995) 107

Papaefstathiou, I. and Luque de Castro, M.D., Nitrogen speciation analysis in solid samples by integrated pervaporation and detection, 354 (1997) 135

Papaefstathiou, I., Bilitewski, U. and de Castro, M.D.L., Pervaporation: An interface between fermentors and monitoring, 330 (1996) 265

Papaefstathiou, I., Tena, M.T. and de Castro, M.D.L., On-line pervaporation separation process for the potentiometric determination of fluoride in "dirty" samples, 308 (1995) 246

Papkovsky, D., see Kulmala, S., 386 (1999) 1

Papkovsky, D., Uskova, M.A., Ponomarev, G.V., Korpela, T., Kulmala, S. and Guilbault, G.G., Optical sensing of sulfite with a phosphorescent probe, 374 (1998) 1

Papkovsky, D.B., Desyaterik, I.V., Ponomarev, G.V., Kurochkin, I.N. and Korpela, T., Studies with solid-state phosphorescent coatings on their sensitivity to nitrogen oxides, 310 (1995) 233

Papkovsky, D.B., Mohr, G.J. and Wolfbeis, O.S., New polar plasticizers for luminescence-based sensors, 337 (1997) 201

Paquette, D.M., see Little, M.J., 339 (1997) 279

Parab, S., Van Wie, B.J., Byrnes, I., Robles, E.J., Weyrauch, B. and Tiffany, T.O., Modeling and optimization studies for a sequential flow based bio-analytical system, 359 (1998) 157

Pardo Martinez, B., see Lagana, A., 306 (1995) 65

Pardo, P., López-Sánchez, J.F. and Rauret, G., Characterisation, validation and comparison of three methods for the extraction of phosphate from sediments, 376 (1998) 183

Pardo, R., see Vega, M., 310 (1995) 131

Pardo-Martinez, B., see Lagana, A., 316 (1995) 377

Pardue, H., see Chen, W., 388 (1999) 231

Pardue, H.L., see K., B.L., 329 (1996) 285

Pardue, H.L., see Love, M.D., 326 (1996) 95

Pardue, H.L., see Roussin, J.A., 303 (1995) 199

Pardue, H.L., see Shi, Y., 360 (1998) 77

Parellada, J., Domínguez, E. and Fernández, V.M., Amperometric flow injection determination of fructose in honey with a carbon paste sensor based on fructose dehydrogenase, 330 (1996) 71

Parellada, J., Narváez, A., López, M.A., Domínguez, E., Fernández, J.J., Pavlov, V. and Katakis, I., Amperometric immunosensors and enzyme electrodes for environmental applications, 362 (1998) 47

Parent, M., Vanhoe, H., Moens, L. and Dams, R., Evaluation of a flow injection system combined with an inductively coupled plasma mass spectrometer with thermospray nebulization for the determination of trace levels of platinum, 320 (1996) 1

Pariente, F., see Abad, J.M., 368 (1998) 183

Pariente, F., see La Rosa, C., 308 (1995) 129

Pariente, F., see Lorenzo, E., 309 (1995) 79

Pariente, F., see Tobalina, F., 358 (1998) 15 Paris, T., see Georges, J., 386 (1999) 287

Parissakis, G., see Ochsenkühn-Petropulu, M., 315 (1995) 231

Parissakis, G., see Ochsenkühn-Petropulu, M., 319 (1996) 249

Parissakis, G., see Ochsenkühn-Petropulu, M., 337 (1997) 323

Park, J.K., see Lee, K.S., 380 (1999) 17

Park, J.K., Yee, H.J., Lee, K.S., Lee, W.Y., Shin, M.C., Kim, T.H. and Kim, S.R., Determination of breath alcohol using a differential-type amperometric biosensor based on alcohol dehydrogenase, 390 (1999) 83

Parrado, C., see Joseph, W., 344 (1997) 111

Parrado, C., see Wang, J., 347 (1997) 1

Parthasarathy, N., Pelletier, M. and Buffle, J., Hollow fiber based supported liquid membrane: a novel analytical system for trace metal analysis, 350 (1997) 183

Parthasarathy, N., see Town, R.M., 302 (1995) 1

Parthasarathy, R., see Kayasth, S., 370 (1998) 91

Pascual, E., see Alzaga, R., 381 (1999) 39

Pascual-Reguera, M.I., see Ayora-Cañada, M.J., 375 (1998) 71

Pascual-Reguera, M.I., see Ortega-Barrales, P., 353 (1997) 115

Pasella, D., see De Santis, F., 346 (1997) 127

Pasquini, C., Jian, L., Tran, C.D. and Smirnov, S., Detection of flow injection analysis with pH gradient by acousto-optic tunable filter based spectrophotometry, 319 (1996) 315

Pasquini, C., see da Silva, M.d.C.H., 349 (1997) 377

Pasquini, C., see do Carmo Hespanhol da Silva, M., 366 (1998) 223 Pasquini, C., see do Carmo Hespanhol da Silva, M., 393 (1999) 121 Pasquini, C., see Facchin, I., 308 (1995) 231

Pasti, L., Jouan-Rimbaud, D., Massart, D.L. and Noord, O.E.d., Application of Fourier transform to multivariate calibration of near-infrared data. 364 (1998) 253

Pastor, A., Vázquez, E., Ciscar, R. and de la Guardia, M., Efficiency of the microwave-assisted extraction of hydrocarbons and pesticides from sediments, 344 (1997) 241

Patat, F., see Tessier, L., 347 (1997) 207

Patel, H., see Enju, W., 334 (1996) 139

Patel, H., see Enju, W., 334 (1990) 135 Patel, H., see Wang, E., 357 (1997) 85

Patel, H., see Wang, E., 397 (1999) 287

Patel, Y., Dhorda, U.J., Sundaresan, M. and Bhagwat, A.M., Separation and estimation of five imidazoles by packed column super-critical fluid chromatography, 362 (1998) 271

Pathak, R. and Rao, G.N., Synthesis and metal sorption studies of ptert-butylcalix[8]arene chemically bound to polymeric support, 335 (1996) 283

Patil, S.T., Bhoir, I.C. and Sundaresan, M., Supercritical fluid chromatographic method using phenyl packed column for determination of phenobarbitone and phenytoin sodium in dosage form, 384 (1999) 143

Patjarut, T., see Chimpalee, N., 304 (1995) 97

Patón, F., see Hernández, L., 327 (1996) 117

Patrut, A., see Gaspar, S., 385 (1999) 111

Patterson, C.H., see Bakaltcheva, I.B., 399 (1999) 13

Patterson, H., see Lakshman, S., 321 (1996) 113

Patterson, H., see MacDonald, B.C., 338 (1997) 155

Patterson, H.H., see Fang, F., 373 (1998) 139

Patterson, S.L., see Spear, S.K., 357 (1997) 79

Paul Chiarelli, M., Gu, X., A. Aldridge, A. and Wu, H., Matrixassisted laser desorption ionization and time-of-flight mass spectrometry for the sensitive determination of arylamide-deoxynucleoside adducts, 368 (1998) 1

Paul Thomas, C.L., see Munro, W.A., 374 (1998) 253

Paul Thomas, C.L., see Munro, W.A., 375 (1998) 49

Paul, H.J., see Amarasinghe, S., 307 (1995) 227

Paula Packer, A., see Fernanda Giné, M., 366 (1998) 313

Paull, B., Nesterenko, P. and Haddad, P.R., Chelation ion chromatography of metal ions using an ODS reversed-phase column and a mobile phase containing methylthymol blue, 375 (1998) 117

Paull, B., see Ohta, K., 359 (1998) 255

Pavlov, A.R., see Blake, D.A., 376 (1998) 13

Pavlov, V., see Parellada, J., 362 (1998) 47

Pavón, J.M.C., see Garcia, J.A.J., 321 (1996) 273

Pawliszyn, J., see Koziel, J., 400 (1999) 153

Pawliszyn, J., see Wu, J., 383 (1999) 67

Paya, I.D.O., see Espinosa-Mansilla, A., 313 (1995) 103

Payne, A.W., see Phalp, J.M., 318 (1995) 43

Pazur, J.H., Electrophoresis and isoelectrofocusing coupled with agar diffusion for the characterization of antibodies and enzymes, 383 (1999) 127 Peat, D.M.W., see McKelvie, I.D., 351 (1997) 265

Pécheyran, C., see Amouroux, D., 377 (1998) 241

Peck, A., see Simeonsson, J.B., 397 (1999) 33

Peder Raj Andersen, N., Limitations of the use of the electrochemical quartz crystal microbalance in stripping analysis of lead(II) and cadmium(II) on a quartz crystal platinum electrode with a thin mercury film, 368 (1998) 191

Pedrero, M., see Wang, J., 304 (1995) 41

Pedrero, M., see Wang, J., 305 (1995) 3

Pedrosa, M.M., see Estrella Legaz, M., 372 (1998) 201

Pedrotti, J.J., see Lima, A.W., 354 (1997) 325

Peharec, Ž., see Omanović, D., 339 (1997) 147

Peibiao, L., see Bo, H., 312 (1995) 329

Peibiao, L., see Hongying, Z., 382 (1999) 137

Peichang, L., see Hanfa, Z., 310 (1995) 461

Pekel, A.T., see Sener, E., 335 (1996) 35

Pelayo, J.M., see Calvo, A.M., 309 (1995) 145

Pelayo, J.M., see Galletti, G.C., 335 (1996) 245

Pelletier, M., see Parthasarathy, N., 350 (1997) 183

Pemberton, R.M. and Hart, J.P., Electrochemical behaviour of triclosan at a screen-printed carbon electrode and its voltammetric determination in toothpaste and mouthrinse products, 390 (1999) 107

Pena, M.S., see Aaron, J.J., 314 (1995) 45

Penalva, J., González-Martínez, M.A., Puchades, R., Maquieira, A., Pilar Marco, M. and Barceló, D., Immunosensor for trace determination of Irgarol 1051 in seawater using organic media, 387 (1999) 227

Peñalvo, G.C., see Nevado, J.J.B., 340 (1997) 257

Penchev, P.N., Andreev, G.N. and Varmuza, K., Automatic classification of infrared spectra using a set of improved expert-based features, 388 (1999) 145

Penelas, G., see Cosano, J.S., 308 (1995) 187

Peng, Z., see Ni, Y., 304 (1995) 217

Pengguang, Y. and Shaojun, D., The fabrication and performance of an Ag/AgCl reference electrode in human serum, 330 (1996) 167

Penner, R.M., see Stiger, R.M., 307 (1995) 377

Penninckx, W., see Bouveresse, E., 348 (1997) 283

Penninckx, W., see Hartmann, C., 338 (1997) 19

Penninckx, W., see Wu, W., 329 (1996) 257

Penninckx, W., see Wu, W., 331 (1996) 75 Pennock, C., see Keenan, F., 354 (1997) 1

Penovski, R., see Komorsky-Lovrić, S., 389 (1999) 219

Penrose, W.R., Li, P., Stetter, J.R. and Ollison, W.M., Sensitive measurement of ozone using amperometric gas sensors, 313 (1995) 209

Peral, J., see Torrades, F., 333 (1996) 139

Perämäki, P., see Jauhiainen, T., 389 (1999) 21

Peramäki, P., see Paama, L., 330 (1996) 259

Peräniemi, S. and Ahlgrén, M., Optimized arsenic, selenium and mercury determinations in aqueous solutions by energy dispersive x-ray fluorescence after preconcentration onto zirconiumloaded activated charcoal, 302 (1995) 89

Peräniemi, S. and Ahlgrén, M., Separation of microgram quantities of Cr(III) and Cr(VI) in aqueous solutions and determination by energy dispersive X-ray fluorescence spectrometry, 315 (1995) 265 Peräniemi, S., see Turunen, M., 311 (1995) 85

Perdicakis, M., Grosselin, N. and Bessière, J., Interaction of pyrite pulps with Ag\* and Hg²\* ions. Electrochemical characterization of micrometric grains, 385 (1999) 467

Perdicakis, M., see Mignano, L., 305 (1995) 137

Pereira, A.V. and Fatibello-Filho, O., Flow injection spectrophotometric determination of L-ascorbic acid in pharmaceutical formulations with on-line solid-phase reactor containing copper (II) phosphate, 366 (1998) 55

Pereira, A.V., see Fatibello-Filho, O., 384 (1999) 167

Pereira, J.L.C., see Redinha, J.S., 351 (1997) 115

Pereiro, R., see Rodríguez-Fernández, J., 398 (1999) 23

Pereiro, R., see San Vicente de la Riva, B., 395 (1999) 1

Pérez Clavijo, M., see Sanz-Asensio, J., 381 (1999) 331

Pérez Pavón, J.L., see Fernández Laespada, M.E., 327 (1996) 253Perez, A.S. and de Frutos, J.E.F., Study of the catalytic polarographic reduction of Ni(II) in the presence of albumin, immunoglobulins and serum proteins Determination of total proteins in

serum, 317 (1995) 319

Pérez, J.A., Haro, I., Martin, I., Alsina, M.A. and Reig, F., Surface and polarization fluorescence studies on the interaction of an RGD sequence containing a Hepatitis A virus peptide with phospholipids, 303 (1995) 65

Pérez, J.A., see Chicharro, M., 379 (1999) 81

Pérez, J.A., see Perlado, J.C., 305 (1995) 83

Pérez, M., see Torrades, F., 333 (1996) 139

Pérez, P., see Marín, D., 358 (1998) 45

Pérez, R., Rupérez, A. and Laserna, J.J., Evaluation of silver substrates for surface-enhanced Raman detection of drugs banned in sport practices, 376 (1998) 255

Pérez, R., Rupérez, A., Laserna, J.J., Felidj, N., Laassis, B., Aaron, J.J. and Aubard, J., A comparison of surface-enhanced Raman spectroscopic and fluorimetric detection of the phenothiazine derivative trifluoperazine and its photooxidation products, 369 (1998) 197

Pérez, R., see Ayora, M.J., 355 (1997) 15

Perez, S., see Barceló, D., 376 (1998) 49

Pérez-Arribas, L.V., see Hipólito-Moreno, A., 362 (1998) 187

Pérez-Arribas, L.V., see Navarro-Villoslada, F., 308 (1995) 238

Pérez-Arribas, L.V., see Navarro-Villoslada, F., 313 (1995) 93

Pérez-Arribas, L.V., see Navarro-Villoslada, F., 381 (1999) 93

Pérez-Bendito, D., see Aguilar-Caballos, M.P., 354 (1997) 173 Pérez-Bendito, D., see Aguilar-Caballos, M.P., 381 (1999) 147

Pérez-Bendito, D., see Borrego, E., 362 (1998) 285

Pérez-Bendito, D., see Borrego, E., 384 (1999) 105

Pérez-Bendito, D., see Borrego, E., 384 (1999) 175

Pérez-Bendito, D., see Carreto, M.L., 349 (1997) 33

Pérez-Bendito, D., see Casero, I., 345 (1997) 75

Pérez-Bendito, D., see Cepas, J., 314 (1995) 87

Pérez-Bendito, D., see Cobo, M., 356 (1997) 51

Pérez-Bendito, D., see Gaikwad, A., 302 (1995) 275

Pérez-Bendito, D., see Gala, B., 303 (1995) 31

Pérez-Bendito, D., see Gala, B., 310 (1995) 453

Pérez-Bendito, D., see Jiménez-Prieto, R., 321 (1996) 53

Pérez-Bendito, D., see Jiménez-Prieto, R., 334 (1996) 323

Pérez-Bendito, D., see Lunar, M.L., 337 (1997) 341

Pérez-Bendito, D., see Morales, F., 345 (1997) 87

Pérez-Bendito, D., see Panadero, S., 303 (1995) 39

Pérez-Bendito, D., see Panadero, S., 329 (1996) 135

Pérez-Bendito, D., see Sicilia, D., 392 (1999) 29

Pérez-Cid, B., Lavilla, I. and Bendicho, C., Speeding up of a threestage sequential extraction method for metal speciation using focused ultrasound, 360 (1998) 35

Pérez-Cid, B., Lavilla, I. and Bendicho, C., Application of microwave extraction for partitioning of heavy metals in sewage sludge, 378 (1999) 201

Perez-Cid, B., see Lavilla, I., 381 (1999) 297

Pérez-Clavijo, M., see Sanz-Asensio, J., 343 (1997) 39

Pérez-Conde, C., see Martin-Esteban, A., 304 (1995) 121

Pérez-Corona, T., Madrid, Y. and Cámara, C., Evaluation of selective uptake of selenium (Se(IV) and Se(VI)) and antimony (Sb(III) and Sb(V)) species by baker's yeast cells (Saccharomyces cerevisiae), 345 (1997) 249

Pérez-Fernández, J.C., see Hernández, L., 336 (1996) 85

Pérez-Jiménez, C., Escriche, L. and Casabó, J., Poly(vinyl) chloride membrane caesium-selective electrodes based on doubly crowned 1,3-calix[4]arenes, 371 (1998) 155

Pérez-Jiménez, C., see Casabó, J., 320 (1996) 63

Pérez-López, J.A., see Hernández, L., 336 (1996) 85

Pérez-Martinez, I., Sagrado, S. and Medina-Hernández, M.J., A rapid procedure for the determination of caffeine, theophylline and theobromine in urine by micellar liquid chromatography and direct sample injection, 304 (1995) 195

Pérez-Pastor, R.M., see García-Alonso, S., 367 (1998) 93

Pérez-Peña, J., see Collado-Sánchez, C., 320 (1996) 19

Pérez-Ponce, A., Garrigues, S. and de la Guardia, M., Direct vapor generation Fourier transform infrared spectrometric determination of ethanol in blood, 336 (1996) 123

Pérez-Ponce, A., Garrigues, S. and de la Guardia, M., Microwaveassisted vapour-generation Fourier transform infrared spectrometric determination of carbonate in waters, 358 (1998) 235

Pérez-Ponce, A., see Garrigues, J.M., 373 (1998) 63

Pérez-Ruíz, T., Martínez-Lozano, C. and Sanz, A., Flow-injection chemiluminometric determination of ascorbic acid based on its sensitized photooxidation, 308 (1995) 299

Pérez-Ruiz, T., Martinez-Lozano, C., Tomás, V. and Carpena, J., Spectrofluorimetric flow-injection method for the successive determination of chloroxine and chlorquinaldol in pharmaceutical preparations, 326 (1996) 41

Peris, M., Ors, R., Bonastre, A., Gil, P. and Serrano, J., Advanced application of rule nets to the automation of chemical analysis systems, 354 (1997) 249

Perlado, J.C., Zapardiel, A., Bermejo, E., Pérez, J.A. and Hernández, L., Determination of phenylephrine with a modified carbon paste electrode, 305 (1995) 83

Perrin, J.H., see Sun, J., 338 (1997) 1

Persaud, K.C., see Bailey, R.A., 363 (1998) 147

Persaud, K.C., see Wareham, P.D., 394 (1999) 43

Pesavento, M. and Baldini, E., Study of sorption of copper(II) on complexing resin columns by solid phase extraction, 389 (1999) 50

Pesavento, M. and Biesuz, R., Sorption of divalent metal ions on an iminodiacetic resin from artificial seawater, 346 (1997) 381 Pesavento, M., Alberti, G. and Biesuz, R., Investigation of the speciation of aluminium in drinking waters by sorption on a strong anionic-exchange resin AG1X8, 367 (1998) 215

Pesavento, M., see Soldi, T., 323 (1996) 27

Péter, A. and Tóth, G., Chromatographic methods for the separation of enantiomers and epimers of β-alkyl amino acids and peptides containing them, 352 (1997) 335

Peter, J., see Hutter, W., 306 (1995) 237

Peter, M.G., see Streffer, K., 362 (1998) 81

Peters, A., see Lead, J.R., 369 (1998) 171

Peterson, K.L., Logan, B.K., Christian, G.D. and Ruzicka, J., Sequential-injection extraction for sample preparation, 337 (1997) 99

Peterson, T.A., see Sutter, J.M., 342 (1997) 113

Petersson, L.R., see Danielsson, R., 354 (1997) 211

Petit de Peña, Y., see Gallignani, M., 369 (1998) 57

Petneházy, I., see Tömpe, P., 305 (1995) 295

Petrakis, L., see Hrijac, J.A., 350 (1997) 221

Petronio, B.M., see Campanella, L., 309 (1995) 387

Petrov, V., see Neshkova, M., 332 (1996) 93

Petrova, R., see Neshkova, M., 332 (1996) 93

Petrovic, S.C. and Dewald, H.D., Square-wave anodic stripping voltammetry of Zn(II) as a method for probing instabilities at a glassy carbon mercury film microelectrode, 357 (1997) 33

Petrucci, F., see Alimonti, A., 306 (1995) 35

Petrucci, F., see Alimonti, A., 342 (1997) 75

Petrucci, F., see Krachler, M., 363 (1998) 1

Petrucci, F., see Posta, J., 325 (1996) 185

Petrucci, G.A., see Neuhauser, R.E., 346 (1997) 37

Petrukhin, O.M., Frakiisky, Y., Kharitonov, A.B., Urusov, Y. and Baulin, V.Ye., Influence of lipophilic anionic compounds on the selectivity of ion-selective electrodes based on podands with phosphoryl complexing groups, 385 (1999) 125

Petrukhin, O.M., Kharitonov, A.B., Urusov, Y.I., Schipulo, E.V., Kruchinina, N.Y. and Baulin, V.E., Potentiometric selectivity of ion-selective electrodes for alkaline-earth elements based on podands with phosphoryl terminal groups, 353 (1997) 11

Petrukhin, O.M., see Kolytcheva, N.V., 357 (1997) 231

Petsul, P.H., see Greenway, G.M., 387 (1999) 1

Pettas, I.A., Lafis, S.I. and Karayannis, M.I., Reaction rate method for determination of nitrite by applying a stopped-flow technique. 376 (1998) 331

Pettersson, A.K. and Karlberg, B., Simultaneous determination of orthophosphate and arsenate based on multi-way spectroscopickinetic data evaluation, 354 (1997) 241

Pettersson, A.K. and Karlberg, B., Simultaneous determination of orthophosphate and silicate in brackish water, 378 (1999) 183

Pettersson, G., see Tessema, M., 349 (1997) 179

Petty, J.D., see Cardwell, T.J., 308 (1995) 197

Peuravuori, J. and Pihlaja, K., Molecular size distribution and spectroscopic properties of aquatic humic substances, 337 (1997) 133

Peuravuori, J. and Pihlaja, K., Pyrolysis electron impact mass spectrometry in studying aquatic humic substances, 350 (1997) 241 Peuravuori, J. and Pihlaja, K., Multi-method characterization of lake aquatic humic matter isolated with two different sorbing solids, 363 (1998) 235

Peuravuori, J. and Pihlaja, K., Multimethod characterization of lake aquatic humic matter isolated with sorbing solid and tangential membrane filtration, 364 (1998) 203

Peuravuori, J., Paaso, N. and Pihlaja, K., Characterization of lakeaquatic humic matter isolated with two different sorbing solid techniques: pyrolysis electron impact mass spectrometry, 391 (1999) 331

Peven, C.S., see Chuang, J.C., 376 (1998) 67

Peyrot, L., see Duriche, C., 395 (1999) 351

Pfeiffer, D., Liu, Y., Scheller, F.W. and Kissinger, P.T., Continuous measurement of lactate in microdialysate, 351 (1997) 127

Pfeiffer, D., see Spohn, U., 319 (1996) 79

Phalp, J.M., Payne, A.W. and Windig, W., The resolution of mixtures using data from automated probe mass spectrometry, 318 (1995) 43

Pham, M.T., Matz, W. and Seifarth, H., Surface roughness with nanometer-scale Ag particles generated by ion implantation, 350 (1997) 209

Pham, M.T., Matz, W., Möller, D. and Hüller, J., Ion beam sensitized SiO<sub>2</sub> surface for halide ions, 320 (1996) 289

Phillips, J.B., see Dimandja, J.M.D., 371 (1998) 1

Phillips, T.M., Determination of in situ tissue neuropeptides by capillary immunoelectrophoresis, 372 (1998) 209

Phimphivong, S., Kölchens, S., Edmiston, P.L. and Saavedra, S.S., Time-resolved, total internal reflection fluorescence microscopy of cultured cells using a Tb chelate label, 307 (1995) 403

Piazzese, D., see De Stefano, C., 398 (1999) 103

Piccardi, G., see Giacomelli, M.C., 396 (1999) 285

Picciotto, A., see Reisenhofer, E., 306 (1995) 99

Pichon, V., Bouzige, M. and Hennion, M.C., New trends in environmental trace-analysis of organic pollutants: class-selective immunoextraction and clean-up in one step using immunosorbents, 376 (1998) 21

Pichon, V., Chen, L. and Hennion, M.-C., On-line preconcentration and liquid chromatographic analysis of phenylurea pesticides in environmental water using a silica-based immunosorbent, 311 (1995) 429

Pickard, R.S., Micromachined biosensor terminals for the study of growing neurons, 385 (1999) 73

Pickup, N.L., Shapiro, J.S. and Wong, D.K., Extraction of silver by polypyrrole films upon a base-acid treatment, 364 (1998) 41

Picque, D., see Joyeux, C., 320 (1996) 77

Piehler, J., see Brecht, A., 311 (1995) 289

Piehler, J., see Mouvet, C., 338 (1997) 109

Piela, A., see Lukaszweski, Z., 318 (1996) 159Pieper, T., see Szpunar, J., 387 (1999) 135

Piergianni, V., see D'Arrigo, P., 304 (1995) 249

Pierre, T.G.St., see Rahman, I.H.A, 393 (1999) 235

Piet van Zoonen, see Hoogerbrugge, R., 388 (1999) 119

Pietrantonio, E., see Campanella, L., 309 (1995) 387

Pihlaja, J., see Kulmala, S., 367 (1998) 17

Pihlaja, K., see Peuravuori, J., 337 (1997) 133

Pihlaja, K., see Peuravuori, J., 350 (1997) 241

Pihlaja, K., see Peuravuori, J., 363 (1998) 235

Pihlaja, K., see Peuravuori, J., 364 (1998) 203

Pihlaja, K., see Peuravuori, J., 391 (1999) 331

Pihlar, B., see Novič, M., 348 (1997) 101

Pihlar, B., see Tavčar, G., 329 (1996) 239

Pihlström, T., Hellström, A. and Axelsson, V., Gas chromatographic analysis of pesticides in water with off-line solid phase extraction, 356 (1997) 155

Pihlström, T., see Valverde, A., 338 (1997) 63

Piippanen, T., Rautiainen, J. and Tummavuori, J., Determination of copper, iron, molybdenum and silicon in hydrometallurgically roasted molybdenite concentrate solution by inductively coupled plasma atomic emission spectrometry, 349 (1997) 327

Pilar Marco, M., see Angel González-Martínez, M., 386 (1999) 201 Pilar Marco, M., see Penalva, J., 387 (1999) 227

Piletskaya, E.V., Piletsky, S.A., El'skaya, A.V., Sozinov, A.A., Marty, J.-L. and Rouillon, R., D1 protein - an effective substitute for immunoglobulins in ELISA for the detection of photosynthesis inhibiting herbicides, 398 (1999) 49

Piletskaya, E.V., Piletsky, S.A., Sergeyeva, T.A., El'skaya, A.V., Sozinov, A.A., Marty, J.-L. and Rouillon, R., Thylakoid membranes-based test-system for detecting of trace quantities of the photosynthesis-inhibiting herbicides in drinking water, 391 (1999) 1

Piletsky, S.A., see Piletskaya, E.V., 391 (1999) 1

Piletsky, S.A., see Piletskava, E.V., 398 (1999) 49

Piletsky, S.A., see Sergeyeva, T.A., 390 (1999) 73

Piletsky, S.A., see Sergeyeva, T.A., 391 (1999) 289

Piletsky, S.A., see Sergeyeva, T.A., 392 (1999) 105

Pilloton, R., see Cremisini, C., 311 (1995) 273

Pimentel, M.F., see Duarte, M.M.M.B., 350 (1997) 353

Pin, C. and Santos Zalduegui, J.F., Sequential separation of light rare-earth elements, thorium and uranium by miniaturized extraction chromatography: Application to isotopic analyses of silicate rocks, 339 (1997) 79

Pin, C., see Yang, X.J., 369 (1998) 17

Piñeiro-Avila, G., Salvador, A. and de la Guardia, M., Microwaveassisted saponification of animal greases for cholesterol determination, 371 (1998) 297

Ping, L., see Lin, Z., 344 (1997) 29

Pingang, H., see Shenghui, L., 335 (1996) 239

Pingarrón, J.M., see Agüí, L., 385 (1999) 241

Pingarrón, J.M., see Agüi, M.L., 305 (1995) 324

Pingarrón, J.M., see Fernández, C., 305 (1995) 192

Pingarrón, J.M., see Fernández, C., 314 (1995) 13

Pingarrón, J.M., see Pita, M.T.P., 340 (1997) 89

Pingarrón, J.M., see Reviejo, A.J., 315 (1995) 93 Pingarrón, J.M., see Ruiz, M.A., 305 (1995) 49

Ping-Kay, H., see Chin-Kwan, M., 314 (1995) 77

Pingyu, Y., see Kokot, S., 332 (1996) 105

Pinheiro, J.P., Mota, A.M., d'Oliveira, J.M.R. and Martinho, J.M.G., Dynamic properties of humic matter by dynamic light scattering and voltammetry, 329 (1996) 15

Pinilla Gil, E., Ostapczuk, P. and Emons, H., Determination of arsenic species by field amplified injection capillary electrophoresis after modification of the sample solution with methanol, 389 (1999) 9

Pinilla, J.M., Hernández, L. and Conesa, A.J., Determination of mercury by open circuit adsorption stripping voltammetry on a platinum disk electrode, 319 (1996) 25

Pinilla, J.M., see Conesa, A.J., 331 (1996) 111

Pinilla-Macias, J.M., see Molina-Holgado, T., 309 (1995) 117

Pinillos, S.C., Vicente, I.S., Bernal, J.G. and Asensio, J.S., Determination of thiocyanate by carbonyl sulphide (OCS) generation and gas-phase molecular absorption spectrometry, 318 (1996) 377

Pinkernell, U., see Effkemann, S., 363 (1998) 97

Piot, J.M., see Lemieux, L., 352 (1997) 399

Piot, J.M., see Qiuyu, Z., 352 (1997) 201

Piottukh-Peletsky, V.N. and Derendyaev, B.G., Which IR search system is better for selection of unknown structure analogues?, 396 (1999) 99

Piras, L., Adami, M., Fenu, S., Dovis, M. and Nicolini, C., Immunoenzymatic application of a redox potential biosensor, 335

Pirat, J.-L., see Fournand, D., 353 (1997) 359

Piredda, R., see De Santis, F., 346 (1997) 127

Pires, M. and Carvalho, L.R.F., An artifact in air carbonyls sampling using C<sub>18</sub> DNPH-coated cartridge, 367 (1998) 223

Pirmohammadi, R., see Kuban, P., 378 (1999) 55

Pirogov, A.V., Platonov, M.M., Pletnev, I.V., Obrezkov, O.N. and Shpigun, O.A., Application of the pattern-recognition method for modelling expert estimation of chromatogram quality, 369 (1998)47

Pişkin, E., see Salih, B., 371 (1998) 177

Pita, M.T.P., Reviejo, A.J., de Villena, F.J.M. and Pingarrón, J.M., Amperometric selective biosensing of dimetyyl- and diethyldithiocarbamates based on inhibition processes in a medium of reversed micelles, 340 (1997) 89

Pitarch, E., see Hernández, F., 374 (1998) 215

Pittner, F., see Neumayr, M., 305 (1995) 26

Pittson, R., see Sprules, S.D., 304 (1995) 17

Pittson, R., see Sprules, S.D., 329 (1996) 215 Piunno, P.A., see Sojka, B., 395 (1999) 273

Piunno, P.A., Watterson, J., Wust, C.C. and Krull, U.J., Considerations for the quantitative transduction of hybridization of immobilized DNA, 400 (1999) 73

Piunno, P.A.E., see Henke, L., 344 (1997) 201

Piying, G., Xuexin, G. and Tianze, Z., New separation method for chromium(VI) in water by collection of its ternary complex on an organic solvent-soluble membrane filter, 332 (1996) 307

Pižeta, I. and Branica, M., Simulation and fitting of anodic stripping voltammetry data for determination of the metal complexing capacity, 351 (1997) 73

Pižeta, I. and Zelić, M., Parasitic resistance as a source of error in voltammetric measurements, 319 (1996) 31

Pižeta, I., Omanović, D. and Branica, M., Application of thallium(I) as an internal standard redox process in voltammetric measurements, 331 (1996) 125

Pižeta, I., see Omanović, D., 339 (1997) 147

Pizzariello, A., see Katrlík, J., 379 (1999) 193

Pizzolatto, R.L., Yang, Y.J., Wolf, L.K. and Messmer, M.C., Conformational aspects of model chromatographic surfaces studied by sum-frequency generation, 397 (1999) 81

Planas, J., see Min, R.W., 366 (1998) 127

Plancque, G., see Moulin, C., 396 (1999) 253

Plantá, M., see Morais, S., 353 (1997) 245

Plaquet, R., see Leflon, P., 327 (1996) 301

Plaschke, M., Czolk, R. and Ache, H.J., Fluorimetric determination of mercury with a water-soluble porphyrin and porphyrin-doped sol-gel films, 304 (1995) 107

Plata, A., see Badr, I.H., 388 (1999) 63

Platonov, M.M., see Pirogov, A.V., 369 (1998) 47

Plaza, J.G., see Garcia, J.A.J., 321 (1996) 273

Plaza-Medina, M., see Sanz-Asensio, J., 381 (1999) 331

Pletcher, D. and Sotiropoulos, S., Towards a microelectrode sensor for the determination of oxygen in waters, 322 (1996) 83

Pletcher, D., see Bertotti, M., 337 (1997) 49

Pletcher, D., see Carpenter, N.G., 317 (1995) 287

Pletnev, I.V., see Pirogov, A.V., 369 (1998) 47

Pluhař, J., see Vobecký, M., 386 (1999) 181

Plzák, Z., see Král, R., 304 (1995) 237

Poch, M., see Araújo, A., 310 (1995) 289

Poch, M., see de Gracia, J., 348 (1997) 143

Pock, K., Jungbauer, A., Kannicht, C., Löster, K., Buchacher, A. and Josic, D., Electrophoretic analyses of clotting factor VIII concentrates, 372 (1998) 219

Poels, I. and Nagels, L.J., Potentiometric detection in capillary electrophoresis with a conducting oligomer electrode, 385 (1999) 417

Poels, I., Nagels, L.J., Verreyt, G. and Geise, H.J., Potentiometric detection of organic acids in liquid chromatography using conducting oligomer electrodes, 370 (1998) 105

Polakovičová, J., Medved', J., Streško, V., Kubová, J. and Čelková, A., Spectrographic determination of gold in geological materials after preconcentration on Spheron-Thiol, 320 (1996) 145

Polášek, M., see Solich, P., 308 (1995) 293

Polishchuk, V., Souteyrand, E., Martin, J.R., Strikha, V.I. and Skryshevsky, V.A., A study of hydrogen detection with palladium modified porous silicon, 375 (1998) 205

Polissiou, M.G., see Nouros, P.G., 351 (1997) 291

Polissiou, M.G., see Nouros, P.G., 389 (1999) 239

Polito, W.L., see Dias Filho, N.L., 306 (1995) 167

Pollard, M.A., see Chuang, J.C., 399 (1999) 135 Polo-Díez, L.M., see Hipólito-Moreno, A., 362 (1998) 187

Polo-Díez, L.M., see Navarro-Villoslada, F., 381 (1999) 93

Polo-Diez, L.M., see Navarro-Villoslada, F., 381 (1999) 93
Polo-Diez, L.M., see Navarro-Villoslada, F., 308 (1995) 238

Polo-Diez, L.M., see Navarro-Villoslada, F., 313 (1995) 93

Polve, M., see Marin, B., 342 (1997) 91

Polyak, F., see Bulatov, V., 343 (1997) 93

Polydorou, C.K., see Lianidou, E.S., 320 (1996) 107

Polzius, R., see Wuske, T., 359 (1998) 321

Pombeiro, A.J.L., see Papadopoulos, N., 306 (1995) 107

Pompe, M., Razinger, M., Novič, M. and Veber, M., Modelling of gas chromatographic retention indices using counterpropagation neural networks, 348 (1997) 215

Poncin, J., see Daniel, A., 308 (1995) 413

Ponomarev, G.V., see Papkovsky, D., 374 (1998) 1

Ponomarev, G.V., see Papkovsky, D.B., 310 (1995) 233

Pontén, E., Glad, B., Stigbrand, M., Sjögren, A. and Irgum, K., Nonporous spherical polymer particles for luminescent solid phase detection reactors, 320 (1996) 87

Poole, C.F., see Bolliet, D., 368 (1998) 129

Poole, C.F., see Jayatilaka, A., 302 (1995) 147

Poole, S.K., see Jayatilaka, A., 302 (1995) 147

Poon, K.F., Lam, P.K. and Lam, M.H., Determination of polynuclear aromatic hydrocarbons in human blood serum by proteolytic digestion — direct immersion SPME, 396 (1999) 303

Pop, H.F., Dumitrescu, D. and Sârbu, C., A study of Roman pottery (terra sigillata) using hierarchical fuzzy clustering, 310 (1995)

Pope, L.H., Davies, M.C., Laughton, C.A., Roberts, C.J., Tendler, S.J.B. and Williams, P.M., Intercalation-induced changes in DNA supercoiling observed in real-time by atomic force microscopy, 400 (1999) 27

Popescu, I.C., see Cosnier, S., 319 (1996) 145

Popescu, I.C., see Gaspar, S., 385 (1999) 111

Popescu, I.C., see Mădăras, M.B., 319 (1996) 335

Poplawski, M.E., B. Brown, R., Lae Rho, K., Yong Yun, S., Jung Lee, H., Sig Cha, G. and Paeng, K.J., One-component room temperature vulcanizing-type silicone rubber-based sodiumselective membrane electrodes, 355 (1997) 249

Poppema, A., see Zegers, B.N., 304 (1995) 47

Poppi, R.J. and Massart, D.L., The optimal brain surgeon for pruning neural network architecture applied to multivariate calibration, 375 (1998) 187

Porcel, M., see Blanco, M., 398 (1999) 83

Porcelli, F., see Mazzei, F., 316 (1995) 79

Porcelli, F., see Mazzei, F., 328 (1996) 41

Porras, M.J., see Almendral, M.J., 308 (1995) 170

Porras, M.J., see Alonso, A., 308 (1995) 164

Portela, M.J., Gómez de Balugera, Z., Goicolea, M.A. and Barrio, R.J., Electrochemical study of the flavour enhancer maltol. Determination in foods by liquid chromatography with amperometric detection, 327 (1996) 65

Portela, M.J., see Goicolea, M.A., 305 (1995) 310

Porter, M.D., see Vaidya, B., 357 (1997) 167

Porter, N., Hart, B.T., Morrison, R. and Hamilton, I.C., Determination of metal ion mixtures using pH gradient flow-injection analysis with fluorescence detection, 308 (1995) 313

Porter, N., see Goodacre, R., 313 (1995) 25

Poruthoor, S.K. and Dasgupta, P.K., Automated particle collection and analysis. Near-real time measurement of aerosol cerium (III), 361 (1998) 151

Pospíšil, S., see Vobecký, M., 386 (1999) 181

Possanzini, M. and Di Palo, V., Improved titanium method for determination of atmospheric H<sub>2</sub>O<sub>2</sub>, 315 (1995) 225

Posta, J., Alimonti, A., Petrucci, F. and Caroli, S., On-line separation and preconcentration of chromium species in seawater, 325 (1996) 185

Posta, J., see Gáspár, A., 354 (1997) 151

Posthumus, R., see Kok, S.J., 303 (1995) 3

Postma, G.J., see de Groot, P.J., 392 (1999) 67

Potyrailo, R.A. and Hieftje, G.M., Oxygen detection by fluorescence quenching of tetraphenylporphyrin immobilized in the original cladding of an optical fiber, 370 (1998) 1 Potyrailo, R.A., Hobbs, S.E. and Hieftje, G.M., A simple, highly stable scintillator light source for ultraviolet absorption-based sensors, 367 (1998) 153

Poulennec, B.L., see Ben Reieb, S., 376 (1998) 41

Pournaghi-Azar, M.H. and Zargharian, R., Adsorptive pulse polarographic determination of uranium(VI) oxinate in chloroform and its use for the analysis of uranium mineral ores, 328 (1996)

Pouzar, V., see Fránek, M., 347 (1997) 163

Powell, H.K.J., see Hawke, D.J., 319 (1996) 305

Powell, J., see Kipton, H., 334 (1996) 27

Powell, K.J., see Akhtar, P., 381 (1999) 49

Powell, K.J., see Downard, A.J., 345 (1997) 5

Powell, K.J., see Downard, A.J., 349 (1997) 111

Powell, K.J., see Simpson, S.L., 343 (1997) 19

Powell, K.J., see Simpson, S.L., 359 (1998) 329

Poyard, S., Jaffrezic-Renault, N., Martelet, C., Cosnier, S. and Labbe, P., Optimization of an inorganic/bio-organic matrix for the development of new glucose biosensor membranes, 364 (1998) 165

Poyard, S., see Jdanova, A.S., 321 (1996) 35

Pozdniakova, S., Padarauskas, A. and Schwedt, G., Simultaneous determination of iron(II) and iron(III) in water by capillary electrophoresis, 351 (1997) 41

Pozebon, D., see Dressler, V.L., 379 (1999) 175

Prada, D., see Garrigues, S., 317 (1995) 95

Prada, S.M., Guekezian, M. and Suárez-Iha, M.E.V., Alternative indirect method for sulfate determination in natural samples, 329 (1996) 197

Prados, P., Fukushima, T., Santa, T., Homma, H., Tsunoda, M., Al-Kindy, S., Mori, S., Yokosu, H. and Imai, K., 4-N,N-Dimethylaminosulfonyl-7-N-(2-aminoethyl)aminobenzofurazan as a new precolumn fluorescence derivatization reagent for carboxylic acids (fatty acids and drugs containing a carboxyl moiety) in liquid chromatography, 344 (1997) 227

Prakash, M., see Wang, J., 395 (1999) 11

Prasad, J.V., see Koshy, V.J., 307 (1995) 55

Prasada Rao, T., Karthikeyan, S., Vijayalekshmy, B. and Iyer, C.S.P., Speciative determination of chromium(VI) and chromium(III) using flow-injection on-line preconcentration and flame atomicabsorption spectrometric detection, 369 (1998) 69

Praserthdam, A., see Spurlock, L.D., 336 (1996) 37

Prat, M.D., see Compañó, R., 302 (1995) 185

Prat, M.D., see Compañó, R., 314 (1995) 175

Praus, P., Possibilities of simple steam distillation in combination with capillary isotachophoresis for the determination of chlorophenols in river and industrial waste waters, 302 (1995) 39

Pravda, M., Jungar, C.M., Iwuoha, E.I., Smyth, M.R., Vytras, K. and Ivaska, A., Evaluation of amperometric glucose biosensors based on co-immobilisation of glucose oxidase with an osmium redox polymer in electrochemically generated polyphenol films, 304 (1995) 127

Prebble, K.A., see Jouan-Rimbaud, D., 304 (1995) 285

Prebble, K.A., see Jouan-Rimbaud, D., 315 (1995) 257

Prebble, K.A., see Wu, W., 315 (1995) 243

Predonzani, S., see Barbieri, P., 398 (1999) 227

Preininger, C. and Mohr, G.J., Fluorosensors for ammonia using rhodamines immobilized in plasticized poly(vinyl chloride) and in sol-gel; a comparative study, 342 (1997) 207

Preininger, C., Mohr, G.J., Klimant, I. and Wolfbeis, O.S., Ammonia fluorosensors based on reversible lactonization of polymerentrapped rhodamine dyes, and the effects of plasticizers, 334 (1996) 113

Prenesti, E., see Gulmini, M., 329 (1996) 33

Preston, M., see Whitehouse, M.J., 345 (1997) 197

Pretsch, E., see Anticó, E., 388 (1999) 327

Pretsch, E., see Bakker, E., 309 (1995) 7

Pretsch, E., see Bakker, E., 393 (1999) 11

Pretsch, E., see Ceresa, A., 395 (1999) 41

Pretsch, E., see Macher, C.L., 348 (1997) 465

Pretsch, E., see Röösli, S., 338 (1997) 119

Pretsch, E., see Rothmaier, M., 327 (1996) 17

Pretsch, E., see Schaller, R.B., 312 (1995) 95

Pretsch, E., see Wehrens, R., 388 (1999) 265

Preuschoff, F., see Spohn, U., 303 (1995) 109

Prevot, F., see Sedjil, M., 377 (1998) 179

Prewett, W. and Promphutha, M., A convenient calibrant for silicon determination, 339 (1997) 297

Price, D., Mantoura, R. Fauzi C. and Worsfold, P.J., Shipboard determination of hydrogen peroxide in the western Mediterranean sea using flow injection with chemiluminescence detection, 371 (1998) 205

Price, D., Mantoura, R. Fauzi C. and Worsfold, P.J., Shipboard determination of hydrogen peroxide in the western Mediterranean sea using flow injection with chemiluminescence detection, 377 (1998) 145

Prien, S.D., see Simoni, J., 313 (1995) 1

Pringsheim, E., Terpetschnig, E. and Wolfbeis, O.S., Optical sensing of pH using thin films of substituted polyanilines, 357 (1997) 247

Pritchard, D.J., Morgan, H. and Cooper, J.M., Simultaneous determination of follicle stimulating hormone and luteinising hormone using a multianalyte immunosensor, 310 (1995) 251

Priyantha, N. and Weerabahu, D., Amperometric sensor for Propanil, 320 (1996) 263

Probst, T., see Rupprecht, M., 358 (1998) 205

Probst, T.U., see Alfassi, Z.B., 360 (1998) 243

Procopio, J.R., see Ortiz Viana, M. Mar, 382 (1999) 179

Promphutha, M., see Prewett, W., 339 (1997) 297

Pron, A., see Grummt, U.W., 357 (1997) 253 Provoost, A., see Corbisier, P., 387 (1999) 235

Przybylko, A.R.M., Thomas, C.L.P. and Fielden, P.R., Residence time model for assessing liquid-liquid extraction systems, 330 (1996) 229

Przybylko, A.R.M., Thomas, C.L.P., Anstice, P.J., Fielden, P.R., Brokenshire, J. and Irons, F., The determination of aqueous ammonia by ion mobility spectrometry, 311 (1995) 77

Psomas, I.E., see Botsoglou, N.A., 354 (1997) 115

Psomas, I.E., see Fletouris, D.J., 345 (1997) 111

Ptitsyn, L.R., see Rettberg, P., 387 (1999) 289

Pu Liu, S., Liu, Q., Fang Liu, Z., Li, M. and Zhi Huang, C., Resonance Rayleigh scattering of chromium(VI)-iodide-basic triphenylmethane dye systems and their analytical application, 379 (1999) 53 Pu, Q., see Chang, X., 354 (1997) 143

Pu, Q.S. and Fang, Z.L., Combination of flow injection with capillary electrophoresis. Part 6. A bias-free sample introduction system based on electroosmotic-flow traction, 398 (1999) 65

Pu, Z., see Diez, S., 315 (1995) 339

Puchades, R., see Angel González-Martínez, M., 386 (1999) 201

Puchades, R., see Gascón, J., 347 (1997) 149

Puchades, R., see González-Martínez, M.A., 347 (1997) 199

Puchades, R., see González-Martínez, M.A., 392 (1999) 113

Puchades, R., see Morais, S., 353 (1997) 245

Puchades, R., see Penalva, J., 387 (1999) 227

Puel, C., see Jouan-Rimbaud, D., 350 (1997) 149

Puhan, Z., see Lüthi-Peng, Q., 393 (1999) 227

Puig, D. and Barceló, D., Comparative study of on-line solid phase extraction followed by UV and electrochemical detection in liquid chromatography for the determination of priority phenols in river water samples, 311 (1995) 63

Puig, D., see Oubina, A., 346 (1997) 49

Puigdomènech, A., Tauler, R., Casassas, E. and Aragay, M., Modelling near infrared instrument differences by chemometric methods: testing for near infrared forage analysis, 355 (1997) 181

Puigdomènech, A.R., see Blanco, M., 327 (1996) 145

Puig-Lleixà, C., Bartrolí, J., del Valle, M., Montlló, D. and Tomico, A., Determination of monochloroacetic acid using a flow injection system featuring a flow through ion-selective electrode and an ion-exchange column for the minimization of interference by chloride., 359 (1998) 311

Puig-Lleixà, C., Jiménez, C., Alonso, J. and Bartrolí, J., Polyurethane-acrylate photocurable polymeric membrane for ion-sensitive field-effect transistor based urea biosensors, 389 (1999) 170.

Puig-Lleixà, C., Ramírez-Garcia, S., Jiménez, C. and Bartrolí, J., Development of a new photopolymerizable membrane for monochloroacetate sensitive potentiometric sensors, 386 (1999) 13

Pulgarín, J.A.M. and García Bermejo, L.F., Flow-injection stoppedflow spectrofluorimetric kinetic determination of paracetamol based on its oxidation reaction by hexacyanoferrate(III), 333 (1996) 59

Pulgarin, J.A.M. and Molina, A.A., Direct determination of quinidine in urine, 317 (1995) 359

Pulgarin, J.A.M. and Molina, A.A., Derivative linear variable-angle scanning fluorescence spectrometry for the determination of closely overlapping drug mixtures, 319 (1996) 361

Pulido, A., Ruisánchez, I. and Rius, F.X., Radial basis functions applied to the classification of UV-visible spectra, 388 (1999) 273

Pulyayeva, I.V., Yegorova, N.L., Experiandova, L.P. and Blank, A.B., Investigation of a new reaction for the determination of microquantities of sulfite in some inorganic salts, 357 (1997) 239

Pumera, M., see Barek, J., 393 (1999) 141

Puri, S., see Ali Taher, M., 367 (1998) 55

Puy, J., see Galceran, J., 305 (1995) 273

Pyrzyńska, K., Drzewicz, P. and Trojanowicz, M., Preconcentration and separation of inorganic selenium species on activated alumina, 363 (1998) 141

# Q

Qi Ma, C., see Liu, Y., 379 (1999) 39

Qi, D., see Liu, H., 358 (1998) 137

Qi, K., see Dazhong, S., 340 (1997) 55

Qi, S., see Fang, Z.-L., 346 (1997) 135

Qi, W.y., see Zhang, S., 386 (1999) 21

Qi, Y.P., see Zhao, Y.D., 388 (1999) 93

Qian, G., see Changqing, S., 309 (1995) 89

Qian, J., see Wong, J.L., 349 (1997) 121

Qianfeng, W., see Wenrui, J., 342 (1997) 67 Qiang, C., see Wang, J., 304 (1995) 41

Qiang, C., see Wang, J., 312 (1995) 39

Qiang, S., see Hua, L., 316 (1995) 39

Qiang, S., see Hua, L., 310 (1993) 37 Qiang, S., see Hua, L., 321 (1996) 97

Qian-Guang, L., see Zhi-Qi, Z., 370 (1998) 59

Qiaosheng, P., see Zhixing, S., 310 (1995) 493

Qijin, C. and Shaojun, D., Amperometric biosensors based on the immobilization of oxidases in a Prussian blue film by electrochemical codeposition, 310 (1995) 429

Qin, W., see Lu, J., 304 (1995) 369

Qin, W., Zhang, Z. and Liu, H., Chemiluminescence flow sensor for the determination of vitamin B<sub>12</sub>, 357 (1997) 127

Qin, W., Zhang, Z. and Zhang, C., Reagentless chemiluminescence flow sensor for sulfite, 361 (1998) 201

Qin, W., Zhang, Z., Li, B. and Liu, S., Chemiluminescence flowsensing system for hydrogen peroxide with immobilized reagents, 372 (1998) 357

Qin, Y., see Liu, H., 358 (1998) 137

Qing, C., Murtaza, Z., Lakowicz, J.R. and Rao, G., A fluorescence lifetime-based solid sensor for water, 350 (1997) 97

Qing, D., Yizhu, G. and Shaojun, D., Cyro-hydrogel for the construction of a tyrosinase-based biosensor, 319 (1996) 71

Qing, M., see Zhao-Hui, L., 325 (1996) 87

Qingguo, W., Apte, S.C., Batley, G.E. and Bowles, K.C., Determination of the mercury complexation capacity of natural waters by anodic stripping voltammetry, 350 (1997) 129

Qiong, C., Tuzhi, P. and Liju, Y., Silk fibroin/cellulose acetate membrane electrodes incorporating xanthine oxidase for the determination of fish freshness, 369 (1998) 245

Qiu, X., see Chen, Z., 367 (1998) 11

Qiuyu, Z., Le Coeur, C. and Piot, J.M., Analysis of peptides from bovine hemoglobin and tuna myoglobin enzymatic hydrolysate: use of HPLC with on-line second-order derivative spectroscopy for the characterization of biologically active peptides, 352 (1997) 201

Qu, F., Li, N.-Q. and Jiang, Y.-Y., Electrochemical studies of porphyrin interacting with DNA and determination of DNA, 344 (1997) 97

Qu, J.Q., see Zhou, J., 381 (1999) 17

Qu, X., Bao, L., Su, X. and Wei, W., A new method based on gelation of tachypleus amebocyte lysate for detection of *Escherichia coliform* using a series piezoelectric quartz crystal sensor, 374 (1998) 47

Quan, X. and Wightman, R.M., Enzyme modified amperometric sensors for choline and acetylcholine with tetrathiafulvalene tetracyanoquinodimethane as the electron-transfer mediator, 341 (1997) 43

Quan-Long, P., see Shen K., Y., 309 (1995) 307

Quaranta, S., see Carpignano, R., 348 (1997) 489

Queen, B.J., see Van Emon, J.M., 399 (1999) 1

Queirazza, G., see Martinotti, W., 305 (1995) 183

Queiroz, Z.F., see Silva, M.M., 368 (1998) 255 Quevauviller, P., see Hoenig, M., 358 (1998) 85

Quick, L., see Edel, H., 310 (1995) 181

Quick, L., see Wienke, D., 317 (1995) 1

Quigley, G.R., see Brecht, A., 362 (1998) 69

Quigley, M.N., see Brenes, N., 310 (1995) 319

Quiles-Zafra, R., see Fernández-Romero, J.M., 308 (1995) 178

Quy Dao, N., see Nguyen Quang, H., 379 (1999) 159

## R

Raba, J., see Lapierre, A.V., 396 (1999) 143

Rabenstein, K., see Dempsey, E., 346 (1997) 341

Raber, G., see Stadlober, M., 350 (1997) 319

Racaud, P., see Rivasseau, C., 394 (1999) 243

Rachkov, A.E., see Sergeyeva, T.A., 390 (1999) 73

Rachkov, A.E., see Sergeyeva, T.A., 391 (1999) 289

Raczyńska, E.D., Application of semiempirical method (AM1) to the study of tautomeric equilibria in the gas phase for simple compounds containing the amidine group: 4(5)-substituted imidazoles, 348 (1997) 431

Radi, A., Voltammetric study of khellin at a DNA-coated carbon paste electrode, 386 (1999) 63

Radvila, P., see Holcombe, D.G., 393 (1999) 157

Raerinne, P., see Kulmala, S., 309 (1995) 197

Raerinne, P., see Mătâchescu, C., 349 (1997) 1

Ràfols, C., Bosch, E., Rosés, M. and Asuero, A.G., Autoprotolysis in aqueous organic solvent mixtures Water-amide and water-amine binary systems, 302 (1995) 355

Ràfols, C., Rosés, M. and Bosch, E., A comparison between different approaches to estimate the aqueous pK<sub>a</sub> values of several non-steroidal anti-inflammatory drugs, 338 (1997) 127

Ràfols, C., Rosés, M. and Bosch, E., Dissociation constants of several non-steroidal anti-inflammatory drugs in isopropyl alcohol/water mixtures, 350 (1997) 249

Ràfols, C., see Bosch, E., 302 (1995) 109

Ràfols, C., see Bosch, E., 349 (1997) 367

Ràfols, C., see Fonrodona, G., 335 (1996) 291

Ràfols, C., see Muinasmaa, U., 340 (1997) 133

Raftery, D., Preface, 397 (1999) 1

Raftery, D., see Hou, T., 400 (1999) 297

Raftery, D., see MacNamara, E., 397 (1999) 9 Raguènès, N., see Feinberg, M., 391 (1999) 239

Rahavendran, S.V., see Min, G., 342 (1997) 145

Rahman, I.H.A, Chua-anusom, W., Webb, J., Macey, D.J. and Pierre, T.G.St., Characterization of dugong liver ferritin, 393 (1999) 235

Raimundo, D., see Oliveira Brett, A.M., 385 (1999) 401

Raimundo, Jr., I.M., see Vieira, J.A., 366 (1998) 257

Raimundo Jr., I.M., see Brito, V.O., 371 (1998) 317

Rajaković, L.V. and Štrbac, S., Surface morphology and the response of piezoelectric gas sensors, 315 (1995) 83

Rajaković, L.V., Bastić, M.B., Korenman, Y.I., Tunikova, S.A. and Bel'skih, N.V., Sensitivity of modified bulk acoustic waves for the detection of phenols in the vapour phase, 318 (1995) 77

Raje, N., Kayasth, S. and Asari, T.P.S., Trace element characterization of high purity gallium, 318 (1996) 211

Raje, N., see Kayasth, S., 370 (1998) 91

Rajendran, V., Csöregi, E., Okamoto, Y. and Gorton, L., Amperometric peroxide sensor based on horseradish peroxidase and toluidine blue O-acrylamide polymer in carbon paste, 373 (1998) 241

Rajendran, V., see Min, R.W., 366 (1998) 127

Rakićević, N., see Mihajlović, R., 318 (1996) 287

Rakicioglu, Y., Mickey Young, M. and Schulman, S.G., Limitations of quenching as a method of fluorometric analysis of nonfluorescent analytes, 359 (1998) 269

Raksasataya, M., Langdon, A.G. and Kim, N.D., Assessment of the extent of lead redistribution during sequential extraction by two different methods, 332 (1996) 1

Raksasataya, M., Langdon, A.G. and Kim, N.D., Inhibition of Pb redistribution by two complexing agents (cryptand and NTA) during a sequential extraction of soil models, 347 (1997) 313

Ralston, J., see Fairthorne, G., 346 (1997) 237

Ramadan, z., see van Kampen, A.H.C., 344 (1997) 1

Raman, B., see Bhoir, I.C., 354 (1997) 123

Ramanaiah, G.V., see Satyanarayana, K., 376 (1998) 273

Ramanathan, K., see Momeni, N., 387 (1999) 21

Ramanathan, S., Lewis, J.C., Kindy, M.S. and Daunert, S., Heterogeneous bioluminescence binding assay for an octapeptide using recombinant aequorin, 369 (1998) 181

Ramanathan, S., Shi, W., Rosen, B.P. and Daunert, S., Bacteriabased chemiluminescence sensing system using β-galactosidase under the control of the ArsR regulatory protein of the ars operon, 369 (1998) 189

Rambla, F.J., Garrigues, S. and de la Guardia, M., PLS-NIR determination of total sugar, glucose, fructose and sucrose in aqueous solutions of fruit juices, 344 (1997) 41

Ramezani, Z., see Maleki, N., 318 (1996) 373

Ramis-Ramos, G., see Amador-Hernández, J., 390 (1999) 163

Ramis-Ramos, G., see Baeza-Baeza, J.J., 316 (1995) 173

Ramis-Ramos, G., see Biosca, Y.M., 307 (1995) 145

Ramis-Ramos, G., see Biosca, Y.M., 345 (1997) 257

Ramis-Ramos, G., see Noguera-Ortí, J.F., 387 (1999) 127

Ramis-Ramos, G., see Yu-Long, X., 317 (1995) 17

Ramis-Ramos, G., see Yu-Long, X., 321 (1996) 75

Ramos Peinado, M.C., see Navas Díaz, A., 363 (1998) 221

Ramos, A., see Fiol, S., 385 (1999) 443

Ramos, L., Tabera, J., Hernández, L.M. and González, M.J., Selective extraction of polychlorinated biphenyls from dairy products using steam distillation-solvent extraction at normal pressure, 376 (1998) 313

Ramos, M.L., Tyson, J.F. and Curran, D.J., Determination of acetaminophen by flow injection with on-line chemical derivatization: Investigations using visible and FTIR spectrophotometry, 364 (1998) 107

Ramírez-Garcia, S., see Puig-Lleixà, C., 386 (1999) 13

Ramseyer, J.P., see Lang, H.P., 393 (1999) 59

Ramstad, T., see Kolodsick, K., 313 (1995) 75

Randriamahazaka, H., see Arkoub, I.A., 340 (1997) 99

Rangel, A.O., see Lima, J.L., 356 (1997) 259

Rangel, A.O., see Lima, J.L., 366 (1998) 187

Rangel, A.O.S.S., see Lopes, T.I.M.S., 308 (1995) 122

Ranville, J.F., Chittleborough, D.J., Shanks, F., Morrison, R.J., Harris, T., Doss, F. and Beckett, R., Development of sedimentation field-flow fractionation-inductively coupled plasma massspectrometry for the characterization of environmental colloids, 381 (1999) 315

Rao, C.R.M., Selective preconcentration of gallium using Muromac A-1 ion exchange column, 318 (1995) 113

Rao, G., see Qing, C., 350 (1997) 97

Rao, G.N., see Pathak, R., 335 (1996) 283

Rao, J.S.V.M.L., see Babu, A.R., 306 (1995) 297

Rao, R.S., see Babu, A.R., 306 (1995) 297

Rao, Y., Zhang, X., Luo, G. and Baeyens, W.R., Chemiluminescence flow-injection determination of furosemide based on a rhodamine 6G sensitized cerium(IV) method, 396 (1999) 273

Rapicault, S., see Le Gal La Salle, A., 311 (1995) 301

Rapp, F.-R., see Länge, K., 399 (1999) 275

Raspor, B., see Erk, M., 360 (1998) 189

Ratana-ohpas, R., Kanatharana, P., Ratana-ohpas, W. and Kongsawasdi, W., Determination of tin in canned fruit juices by stripping potentiometry, 333 (1996) 115

Ratana-ohpas, R., see Sahlin, E., 346 (1997) 157

Ratana-ohpas, W., see Ratana-ohpas, R., 333 (1996) 115

Ratcliffe, N.M., see Hawkins, S.J., 359 (1998) 125

Rathgeb, F. and Gauglitz, G., Dyeless optical detection of ammonia in the gas phase using pH-responsive polymers with reflectometric interference spectroscopy, 372 (1998) 333

Rathgeb, F., see Leipert, D., 392 (1999) 213

Ratliff, J., Investigation of the molecular species produced by the vaporization of the Group IIA metal nitrates from a graphite surface, 333 (1996) 285

Rauret, G., see Dagnac, T., 364 (1998) 19

Rauret, G., see García, J.F., 331 (1996) 33

Rauret, G., see Pardo, P., 376 (1998) 183

Rauret, G., see Roig, M., 379 (1999) 121

Rauret, G., see Rubio, R., 353 (1997) 91

Rauret, G., see Sahuquillo, A., 382 (1999) 317

Rauret, G., see Toribio, M., 310 (1995) 297

Rauret, G., see Toribio, M., 356 (1997) 41

Rauret, G., see Toribio, M., 380 (1999) 83

Rauret, G., see Torres, J.M., 355 (1997) 283

Rauret, G., see Torres, J.M., 379 (1999) 135

Rautiainen, J., see Piippanen, T., 349 (1997) 327

Ravera, M., see Baffi, F., 306 (1995) 149

Ravera, M., see Baffi, F., 360 (1998) 27

Ravindra, H.R., see Krishna, G.R., 309 (1995) 333

Ray, K.L., see Bauerle, G.F., 317 (1995) 137

Razee, S., Tamura, A., Emara, S. and Masujima, T., Application of capillary electrophoresis for the determination of dissolved gases in water samples. I. Determination of dissolved oxygen, 356 (1997) 1

Razinger, M., see Pompe, M., 348 (1997) 215

Readman, J.W., see Tolosa, I., 335 (1996) 267

Realini, F., see Carrer, I., 308 (1995) 20

Reardon, K.F., see Scheper, T., 400 (1999) 121

Rechnitz, G.A., Coon, D., Babb, C., Ogunseitan, A. and Lee, A., Sensing neuroactive agents in Hawaiian plants, 337 (1997) 297

Rechnitz, G.A., see Horie, H., 306 (1995) 123

Rechnitz, G.A., see Liu, M., 387 (1999) 29

Rechnitz, G.A., see Xiaoying, H., 316 (1995) 57

Rechnitz, G.A., see Zhang, W., 350 (1997) 59

Reddy, M.M., see Marinsky, J.A., 302 (1995) 309

Reddy, S.M. and Vadgama, P.M., A study of the permeability properties of surfactant modified poly(vinyl chloride) membranes, 350 (1997) 67

Reddy, S.M. and Vadgama, P.M., Surfactant-modified poly(vinyl chloride) membranes as biocompatible interfaces for amperometric enzyme electrodes, 350 (1997) 77

Reddy, S.M., Higson, S.P. and Vadgama, P.M., Amperometric enzyme electrode for the determination of urine oxalate, 343 (1997) 59

Reddy, S.M., Jones, J.P., Lewis, T. John and Vadgama, P.M., Development of an oxidase-based glucose sensor using thickness-shear-mode quartz crystals, 363 (1998) 203

Reddy, S.M., see Kyröläinen, M., 353 (1997) 281

Rédey, A., see Horváth, E., 370 (1998) 191

Redinha, J.S., Paliteiro, C. and Pereira, J.L.C., Determination of sulfide by square-wave polarography, 351 (1997) 115

Redón, M., see Blanco, M., 303 (1995) 309

Reed, B.L., see Tait, R.J., 324 (1996) 1

Reeves, S.G., see Siebert, S.T.A., 311 (1995) 309

Regan, F., Meaney, M., Vos, J.G., MacCraith, B.D. and Walsh, J.E., Determination of pesticides in water using ATR-FTIR spectroscopy on PVC/chloroparaffin coatings, 334 (1996) 85

Regino, M., Weston, C. and Brajter-Toth, A., Effect of mobile phase composition on the electrochemical cell conversion efficiency in electrochemistry/mass spectrometry, 369 (1998) 253

Rehacek, V., see Riepl, M., 392 (1999) 77

Rehber Türker, A., see Acar, O., 382 (1999) 329

Reichart, E. and Obendorf, D., Determination of naringin in grapefruit juice by cathodic stripping differential pulse voltammetry at the hanging mercury drop electrode, 360 (1998) 179

Reid, W.S., see Brenes, N., 310 (1995) 319

Reig, F., see Haro, I., 303 (1995) 57

Reig, F., see Pérez, J.A., 303 (1995) 65

Reig, F.B., see Carbó, M.T.D., 330 (1996) 207

Reinecke, M., see Beyer, K., 309 (1995) 301

Reinecke, M., see Hitzmann, B., 313 (1995) 55

Reiner, S., see Lead, J.R., 369 (1998) 171

Reinhoudt, D.N., see Antonisse, M.M.G., 332 (1996) 123

Reinhoudt, D.N., see Lugtenberg, R.J., 357 (1997) 225

Reinhoudt, D.N., see Lugtenberg, R.J.W., 310 (1995) 263

Reininger, F., see Trinkel, M., 320 (1996) 235

Reis, B.F., see Araújo, A.N., 310 (1995) 447

Reis, B.F., see Araújo, A.N., 358 (1998) 111

Reis, B.F., see Couto, C.M., 366 (1998) 155

Reis, B.F., see de Azevedo Tumang, C., 374 (1998) 53

Reis, B.F., see Fernanda Giné, M., 366 (1998) 313

Reis, B.F., see Korn, M., 313 (1995) 177

Reis, B.F., see Kronka, E.A.M., 334 (1996) 287

Reis, B.F., see Lapa, R.A., 366 (1998) 209

Reis, B.F., see Lapa, R.A., 377 (1998) 103

Reis, B.F., see Lapa, R.A.S., 351 (1997) 223

Reis, B.F., see Luca, G.C., 366 (1998) 193

Reis, B.F., see Martelli, P.B., 308 (1995) 397

Reis, B.F., see Martelli, P.B., 387 (1999) 165 Reis, B.F., see Oliveira, C.C., 332 (1996) 173

Reis, B.F., see Rocha, F.R., 366 (1998) 45

Pais D.F. see Smiderle M. 386 (1000) 120

Reis, B.F., see Smiderle, M., 386 (1999) 129

Reis, B.F., see Teixeira, L.S., 383 (1999) 309

Reis, B.F., see Vieira, J.A., 366 (1998) 251 Reis, B.F., see Vieira, J.A., 366 (1998) 257

Reis, B.F., see Zagatto, E.A., 400 (1999) 249

Reis, B.F., Morales-Rubio, A. and de la Guardia, M., Environmentally friendly analytical chemistry through automation: comparative study of strategies for carbaryl determination with p-aminophenol, 392 (1999) 265

Reis, C., Carlos de Andrade, J., Bruns, R.E. and Moran, R.C., Application of the split-plot experimental design for the optimization of a catalytic procedure for the determination of Cr(VI), 369 (1998) 269

Reisenhofer, E., Picciotto, A. and Li, D., A factor analysis approach to the study of the eutrophication of a shallow, temperate lake (San Daniele, North Eastern Italy), 306 (1995) 99

Reisenhofer, E., see Barbieri, P., 398 (1999) 227

Reisenhofer, E., see Favretto, L., 344 (1997) 251

Remacle, J., see Moris, P., 302 (1995) 53

Remaud, G., see Jamin, E., 347 (1997) 359

Rempfer, K., see Uhl, S., 303 (1995) 17

Ren, M., see Scczepaniak, W., 305 (1995) 207

Renbing, S. and Stein, K., Flow injection analysis of paraoxon with the use of an immobilized acetylcholinesterase reactor, 324 (1996) 21

Renman, L. and Jagner, D., Asymmetric distribution of results in calibration curve and standard addition evaluations, 357 (1997)

Renman, L., see Adeloju, S.B., 338 (1997) 199

Renneberg, R., Schneider, J., Gründig, B., Cammann, K., Madaras, M.B., Buck, R.P. and Vorlop, K.-D., Hydrogel matrix for three enzyme entrapment in creatine/creatinine amperometric biosensing, 325 (1996) 161

Renneberg, R., see Jülicher, P., 315 (1995) 279

Renqi, H., see Baohong, L., 341 (1997) 161

Reshetilov, A.N., Semenchuk, I.N., Iliasov, P.V. and Taranova, L.A., The amperometric biosensor for detection of sodium dodecyl sulfate, 347 (1997) 19

Reta, M.R., Anunziata, J.D., Cattana, R.I. and Silber, J.J., Comparison between solvatochromic and chromatographic studies of anthraquinones in binary aqueous mixtures, 306 (1995) 81

Rettberg, P., Baumstark-Khan, C., Bandel, K., Ptitsyn, L.R. and Horneck, G., Microscale application of the SOS-LUX-TEST as biosensor for genotoxic agents, 387 (1999) 289

Reuther, R., Jaeger, L. and Allard, B., Determination of organometallic forms of mercury, tin and lead by in situ derivatization, trapping and gas chromatography – atomic emission detection, 394 (1999) 259 Reverdy, G., see Besombes, J.-L., 311 (1995) 255

Reverdy, G., see Besombes, J.-L., 317 (1995) 275

Reviejo, A.J., Fernández, C. and Pingarrón, J.M., Advances in amperometric enzyme electrodes in reversed micelles, 315 (1995) 93

Reviejo, A.J., see Fernández, C., 305 (1995) 192

Reviejo, A.J., see Fernández, C., 314 (1995) 13

Reviejo, A.J., see Pita, M.T.P., 340 (1997) 89

Revsbech, N.P., see Kjær, T., 391 (1999) 57

Rey, F., Machado, A.A.S.C., Arce, F., Ferreira, M.A. and Toja, A., Influence of the concentration on the conductimetric properties of a fulvic acid system, 304 (1995) 375

Rey, F., see Esteves da Silva, J.C.G., 333 (1996) 71

Reynolds, D.M., see Hu, W., 353 (1997) 143

Řezanka, T. and Řezanková, H., Characterization of fatty acids and triacylglycerols in vegetable oils by gas chromatography and statistical analysis, 398 (1999) 253

Řezanková, H., see Řezanka, T., 398 (1999) 253

Rezgui, N.D., Allen, J., Baker, J.G. and Alder, J.F., Quantitative millimetre wave spectrometry. Part I: design and implementation of a tracked millimetre wave confocal Fabry-Perot cavity spectrometer for gas analysis, 311 (1995) 99

Rezgui, N.D., Baker, J.G. and Alder, J.F., Quantitative millimetre wave spectroscopy. Part II: Determination of working conditions in an open Fabry-Perot cavity, 312 (1995) 115

Rezgui, N.D., see Baker, J.G., 319 (1996) 277

Rezzano, I., see Dall'Orto, V.C., 336 (1996) 195

Rhee Paeng, I., see Jun Yoon, I., 367 (1998) 175

Rhee, J.I. and Schügerl, K., The influence of metabolites on enzyme based flow injection analysis, 355 (1997) 55

Rhee, J.I., Hagedorn, J., Kretzmer, G., Scheper, T. and Schügerl, K., Flow-injection immunoassay using OPA derivatization, 374 (1998) 177

Rheeder, N., see Rohwer, H., 341 (1997) 263

Rholam, M. and Cohen, P., Peptides as tools for studying propeptide and proprotein processing, 352 (1997) 155

Ribeiro, M.L., see Nunes, G.S., 399 (1999) 37

Rica, M., see Hernández, L., 315 (1995) 33

Rice, J.A., see Novotny, F.J., 392 (1999) 319

Rich, D.C. and Martin, D., Improved model for improving the interinstrument agreement of spectrocolorimeters, 380 (1999) 263 Richardson, H., see Tandler, P.J., 368 (1998) 45

Richmond, R. and Görlach, E., The automatic visualisation of carryover in high-throughput flow injection analysis mass spectrometry, 390 (1999) 175

Richmond, R. and Görlach, E., Sorting measurement queues to speed up the flow injection analysis mass spectrometry of combinatorial chemistry syntheses, 394 (1999) 33

Richmond, R. and Görlach, E., Erratum to "Sorting measurement queues to speed up the flow injection analysis mass spectrometry of combinatorial chemistry syntheses". [Analytical Chimica Acta 394(1999) 33–42], 399 (1999) 309

Ridder, C., see Bechmann, I.E., 304 (1995) 229

Ridlen, J.S., Klopf, G.J. and Nieman, T.A., Determination of glyphosate and related compounds using HPLC with tris(2,2'bipyridyl)ruthenium(II) electrogenerated chemiluminescence detection, 341 (1997) 195 Riederer, D.E., see Haney, L.L., 397 (1999) 225

Riepl, M., Mirsky, V.M., Novotny, I., Tvarozek, V., Rehacek, V. and Wolfbeis, O.S., Optimization of capacitive affinity sensors: drift suppression and signal amplification, 392 (1999) 77

Rietjens, M., Reduction of error propagation due to normalization: effect of error propagation and closure on spurious correlations, 316 (1995) 205

Rietjens, M., Decomplexation of aluminium—fluoride complexes by citrate-based buffers as a function of pH, aluminium and fluoride concentrations, 368 (1998) 265

Rietz, B., see Alfassi, Z.B., 360 (1998) 243

Rievaj, M., see Bustin, D., 305 (1995) 121

Rigby, G.P., Ahmed, S., Horseman, G. and Vadgama, P., In vivo glucose monitoring with open microflow – influences of fluid composition and preliminary evaluation in man, 385 (1999) 23

Riggin, R.M., see Carlson, A.D., 352 (1997) 221

Righetti, P.G. and Bossi, A., Isoelectric focusing of proteins and peptides in gel slabs and in capillaries, 372 (1998) 1

Righezza, M., see Ounnar, S., 356 (1997) 187

Rigin, V.I., Determination of microgram amounts of free sulphur in transition metal sulphides using solvent extraction and molecular emission cavity analysis, 327 (1996) 139

Rigin, V.I., Skvortsov, N.K. and Rigin, V.V., Xenon tetrafluoride as a decomposition agent for silicone rubber for isolation and atomic emission spectrometric determination of trace metals, 340 (1997) 1

Rigin, V.V., see Rigin, V.I., 340 (1997) 1

Riklin, A., see Katz, E., 385 (1999) 45

Rimpler, M., see Steinert, J., 327 (1996) 153

Rinne, D., see Harzdorf, C., 374 (1998) 209

Ríos, A., see Agudo, M., 308 (1995) 77

Rios, A., see Arce, L., 359 (1998) 27

Rios, A., see Marcos, J., 308 (1995) 152

Rios, A., see Mardones, C., 382 (1999) 23

Rios, A., see Vereda, E., 348 (1997) 129

Rios, A., see Zheng-liang, Z., 318 (1996) 187

Rippin, D.W., see Shirt, R., 374 (1998) 67 Rippin, D.W.T., see Garland, M., 351 (1997) 337

Riso, R.D., Le Corre, P. and Chaumery, C.J., Rapid and simultaneous analysis of trace metals (Cu, Pb and Cd) in seawater by potentiometric stripping analysis, 351 (1997) 83

Ristori, C., Del Carlo, C., Martini, M., Barbaro, A. and Ancarani, A., Potentiometric detection of pesticides in water samples, 325 (1996) 151

Ritchason, M.A., see Baur, J.E., 397 (1999) 123

Riter, K.L., Matveev, O.I., Smith, B.W. and Winefordner, J.D., The determination of lead in whole blood by laser enhanced ionization using a combination of electrothermal vaporizer and flame, 333 (1996) 187

Ritter, C., Gilliard, J.A., Cumps, J. and Tilquin, B., Corrections for heteroscedasticity in window evolving factor analysis, 318 (1996) 125

Ritzka, A., see Hitzmann, B., 348 (1997) 135

Ritzka, A., see Ulber, R., 373 (1998) 253

Riu, J., see Maroto, A., 391 (1999) 173

Rius, A., Callao, M.P. and Rius, F.X., Self-configuration of sequential injection analytical systems, 316 (1995) 27

Rius, A., Callao, M.P., Ferré, J. and Rius, F.X., Assessing the validity of principal component regression models in different analytical conditions, 337 (1997) 287

Rius, F.X., see Ferré, J., 348 (1997) 167

Rius, F.X., see Majcen, N., 348 (1997) 87

Rius, F.X., see Pulido, A., 388 (1999) 273

Rius, F.X., see Rius, A., 316 (1995) 27

Rius, F.X., see Rius, A., 337 (1997) 287

Rius, F.X., see Ruisánchez, I., 348 (1997) 113 Riva, M.C., see Torrades, F., 333 (1996) 139

Rival, S., Besson, C., Saulnier, J. and Wallach, J.M., Use of conductimetry for the monitoring of thermodynamically-controlled enzymatic peptide synthesis, 312 (1995) 213

Rivas, C., see Burguera, J.L., 308 (1995) 349

Rivas, C., see Burguera, M., 308 (1995) 339

Rivas, G., see Cai, X., 344 (1997) 65

Rivas, G., see Joseph, W., 344 (1997) 111

Rivas, G., see Wang, J., 326 (1996) 141

Rivas, G., see Wang, J., 332 (1996) 139

Rivas, G., see Wang, J., 337 (1997) 41

Rivas, G., see Wang, J., 347 (1997) 1

Rivas, G., see Wang, J., 375 (1998) 197 Rivas, G., see Xiaohua, C., 332 (1996) 49

Rivas, G.A., Romero, A.M. and Calatayud, J.M., Photochemical derivatization and spectrophotometric determination of thioridazine by flow injection, 326 (1996) 23

Rivasseau, C. and Hennion, M.C., Potential of immunoextraction coupled to analytical and bioanalytical methods (liquid chromatography, ELISA kit and phosphatase inhibition test) for an improved environmental monitoring of cyanobacterial toxins, 399 (1999) 75

Rivasseau, C., Racaud, P., Deguin, A. and Hennion, M.-C., Development of a bioanalytical phosphatase inhibition test for the monitoring of microcystins in environmental water samples, 394 (1999) 243

Rived, F., Rosés, M. and Bosch, E., Dissociation constants of neutral and charged acids in methyl alcohol. The acid strength resolution, 374 (1998) 309

Rivera-Duarte, I. and Flegal, A.R., Microtechniques for the determination of nanomolar concentrations of trace elements in ≤ 10 ml of sediment porewater, 328 (1996) 13

Riviello, J.M., see Li, Z.-l., 307 (1995) 79

Rizk, N.M., see Hassan, S.S.M., 351 (1997) 91

Rizov, I. and Ilcheva, L., Differential flow injection potentiometry, 311 (1995) 175

Rizzi, A., see Linnemayr, K., 372 (1998) 187

Rizzotti, S., see Lo Coco, F., 386 (1999) 41

Ro, C.U., Hoornaert, S. and Van Grieken, R., Assessment of homogeneity of candidate reference material at the nanogram level and investigation on representativeness of single particle analysis using electron probe X-ray microanalysis, 389 (1999) 151

Roark, S.E., Semin, D.J., Lo, A., Skodje, R.T. and Rowlen, K.L., Solvent-induced morphology changes in thin silver films, 307 (1995) 341

Robards, K., see Simon, D., 360 (1998) 1

Roberts, C.J., see Pope, L.H., 400 (1999) 27

Roberts, M.A., see Siebert, S.T.A., 311 (1995) 309

Robertson, S.K., see Mastin, J.P., 376 (1998) 119

Robertson, S.K., see Striley, C.A.F., 399 (1999) 109

Robison, T., see Li, J., 395 (1999) 85

Robles, E.J., see Parab, S., 359 (1998) 157

Robles, L.C., see Aller, A.J., 330 (1996) 89

Rocchiccioli, F., see Degueldre, C., 396 (1999) 23

Roch, T., Evaluation of total luminescence data with chemometrical methods: a tool for environmental monitoring, 356 (1997) 61

Rocha, F.R., Martelli, P.B., Frizzarin, R.M. and Reis, B.F., Automatic multicommutation flow system for wide range spectro-photometric calcium determination, 366 (1998) 45

Rocha, F.R., see Smiderle, M., 386 (1999) 129

Rocha, F.R., see Teixeira, L.S., 383 (1999) 309

Rocha, T.A., see Gomes, M.T.S.R., 335 (1996) 235

Rocke, D.M., see Jones, G., 313 (1995) 197

Rocke, D.M., see Jones, G., 336 (1996) 175

Rocke, D.M., see Wortberg, M., 304 (1995) 339

Rocke, D.M., see Wortberg, M., 319 (1996) 291

Rodak, S., see Town, R.M., 302 (1995) 1

Roddick, A.D., see Downard, A.J., 317 (1995) 303

Ródenas, V., see Sánchez-Pedreño, C., 308 (1995) 457

Rodríguez Fariñas, N., see Berzas, J.J., 391 (1999) 353

Rodríguez Flores, J., see Berzas, J.J., 391 (1999) 353

Rodríguez, A.R., see Dabrio, M., 385 (1999) 295

Rodríguez, A.R., see Dabrio, M., 385 (1999) 307

Rodríguez, C.W., see Estrella Legaz, M., 372 (1998) 201

Rodríguez, E., Barrio, R.J., Goicolea, A. and Gómez de Balugera, Z., Determination of diflubenzuron and its main metabolites in forestry matrices by liquid chromatography with on-line diodearray and electrochemical detection, 384 (1999) 63

Rodríguez, J., Ballesteros, E., Gallego, M. and Valcárcel, M., Continuous-flow discrimination of L- and D-histidine, 375 (1998) 99

Rodríguez, S.A. and Colón, L.A., Investigations of a sol-gel derived stationary phase for open tubular capillary electrochromatography, 397 (1999) 207

Rodríguez-Fernández, J., Manuel Costa, J., Pereiro, R. and Sanz-Medel, A., Simple detector for oral malodour based on spectro-fluorimetric measurements of hydrogen sulphide in mouth air, 398 (1999) 23

Rodrigues, J.A., see Almeida, P.J., 385 (1999) 287

Rodrigues, J.A., see Barros, A.A., 385 (1999) 315

Rodrigues, J.P., see Santos, E.B., 392 (1999) 333

Rodrigues, L.L., see Katekawa, E., 385 (1999) 345

Rodrigues, P., Morais, H., Mota, T., Olivera, S., Forgács, E. and Cserháti, T., Use of HPLC and multivariate methods for the evaluation of the stability of colour pigments of paprika (Capsicum annuum) powder, 372 (1998) 411

Rodrigues, P.G., see Barros, A.A., 385 (1999) 315

Rodriguez Procopio, J., see Jesús Gismera, M., 385 (1999) 143

Rodriguez, A.R., see Ruiz, C., 305 (1995) 285

Rodriguez, A.R., see Ruiz, C., 325 (1996) 43

Rodriguez, A.R., see Ruiz, C., 350 (1997) 305

Rodriguez, D., see Fernandez-Alba, A.R., 311 (1995) 371

Rodríguez, E.M.R., Alaejos, M.S. and Romero, C.D., Enhancement of the fluorescence intensity of Se-2,3-diamino-naphthalene complex in aqueous solution by adding organic solvents, 334 (1996) 161

Rodriguez, I. and Li, S.F.Y., Surface deactivation in protein and peptide analysis by capillary electrophoresis, 383 (1999) 1

Rodríguez, I.N., Muñoz Leyva, J.A. and Hidalgo Hidalgo de Cisneros, J.L., Use of a carbon paste modified electrode for the determination of 2-nitrophenol in a flow system by differential pulse voltammetry, 344 (1997) 167

Rodriguez, J., Hernández-Coronado, M.J., Hernández, M., Bocchini, P., Galletti, G.C. and Arias, M.E., Chemical characterization by pyrolysis/gas chromatography/mass spectrometry of acid-precipitable polymeric lignin (APPL) from wheat straw transformed by selected streptomyces strains, 345 (1997) 121

Rodríguez, J., see Berzas, J.J., 349 (1997) 303

Rodriguez, L.C., see Campaña, A.M.G., 348 (1997) 237

Rodriguez, L.C., see Nechar, M., 316 (1995) 185

Rodriguez, M.J., see Dukhovich, A., 303 (1995) 85 Rodriguez, P., see Olivé, J., 306 (1995) 285

Rodushkin, I., Ruth, T. and Huhtasaari, A., Comparison of two digestion methods for elemental determinations in plant material

by ICP techniques, 378 (1999) 191 Rogacheva, S.M., see Ignatov, O.V., 347 (1997) 241

Roger, M., see Moris, P., 302 (1995) 53

Rogge, M., see Harzdorf, C., 374 (1998) 209

Rohwedder, J.J.R., see do Carmo Hespanhol da Silva, M., 366 (1998) 223

Rohwer, H. and Hosten, E., pH dependence of the reactions of arsenazo III with the lanthanides, 339 (1997) 271

Rohwer, H., Collier, N. and Hosten, E., Spectrophotometric study of arsenazo III and its interactions with lanthanides, 314 (1995) 219

Rohwer, H., Rheeder, N. and Hosten, E., Interactions of uranium and thorium with arsenazo III in an aqueous medium, 341 (1997) 263

Rohwer, H., see Hosten, E., 345 (1997) 227

Rohwer, H.E., see Hosten, E., 355 (1997) 95

Roig, B., Gonzalez, C. and Thomas, O., Measurement of dissolved total nitrogen in wastewater by UV photooxidation with peroxodisulphate, 389 (1999) 267

Roig, M., de Juan, A., García, J.F., Toribio, M., Vidal, M. and Rauret, G., Determination of a mixture of gamma-emitting radionuclides using solid scintillation detectors and multivariate calibration, 379 (1999) 121

Roitz, J.S. and Bruland, K.W., Determination of dissolved manganese(II) in coastal and estuarine waters by differential pulse cathodic stripping voltammetry, 344 (1997) 175

Rokicka, R., see Leszczyńska, E., 368 (1998) 205

Rollins, H.W., see Ya-Ping, S., 319 (1996) 379

Roßmann, A., see Werner, R.A., 319 (1996) 159

Romaschin, A.D., see Muratsugu, M., 342 (1997) 23

Romberg, B. and Müller, H., Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165

Rombouts, R.F.M., see Rongen, H.A.H., 306 (1995) 333

Romero, A.M., Benito, C.G. and Calatayud, J.M., Continuous-flow spectrophotometric determination of sulfadiazine by diazotisation with in situ preparation of nitrite, 308 (1995) 451

Romero, A.M., see Rivas, G.A., 326 (1996) 23

Romero, C., see Wang, E., 397 (1999) 287

Romero, C.D., see Rodriguez, E.M.R., 334 (1996) 161

Romero, I., see Flor, T., 375 (1998) 127

Romero, J.S.E., see Biosca, Y.M., 307 (1995) 145

Romero, M. Teresa and Ferrer, N., Determination of oil and grease by solid phase extraction and infrared spectroscopy, 395 (1999) 77

Romero, R.A., see Granadillo, V.A., 306 (1995) 139

Romero, R.A., see Tahán, J.E., 317 (1995) 311

Rondon, C.E., see Burguera, J.L., 366 (1998) 295

Rong, E.L., see Guo, N.C., 341 (1997) 251

Rong, L., see Min, Z., 334 (1996) 303

Rong, W.M., Nielsen, J. and Villadsen, J., Simultaneous monitoring of glucose, lactic acid and penicillin by sequential injection analysis, 312 (1995) 149

Rong, W.M., Nielsen, J. and Villadsen, J., On-line monitoring of glucose and penicillin by sequential injection analysis, 320 (1996) 199

Rongen, H.A.H., van Nierop, T., van der Horst, H.M., Rombouts, R.F.M., van der Meide, P.H., Bult, A. and van Bennekom, W.P., Biotinylated and streptavidinylated liposomes as labels in cytokine immunoassays, 306 (1995) 333

Ronghuan, H., see Jianhua, W., 303 (1995) 241

Ronghui, W., see Huwei, T., 353 (1997) 29

Rongjiang, H., see Jinghe, Y., 325 (1996) 195

Ronot-Trioli, C., Trouillet, A., Veillas, C., El-Shaikh, A. and Gagnaire, H., Fibre optic chemical sensor based on surface plasmon monochromatic excitation, 319 (1996) 121

Rooney, M.T., see Seitz, W. Rudolf, 400 (1999) 55

Röösli, S., Pretsch, E., Morf, W.E., Tsuchida, E. and Nishide, H., Selective optical response to oxygen of membranes based on immobilized cobalt(II) porphyrins, 338 (1997) 119

Ríos, A., see Albertús, F., 355 (1997) 23

Ríos, A., see Arce, L., 390 (1999) 39

Ríos, A., see Bauza, R., 391 (1999) 253

Ríos, A., see López Fernández, J.M., 360 (1998) 215

Ríos, A., see Luque, M., 395 (1999) 217

Ríos, A., see Luque-Pérez, E., 366 (1998) 231

Ríos, A., see Luque-Pérez, E., 387 (1999) 155

Ríos, A., see Novic, M., 381 (1999) 287

Ríos, A., see Valcárcel, M., 400 (1999) 425

Ríos, V.d.l., see Estrella Legaz, M., 372 (1998) 201

Rosatto, S.S., Kubota, L.T. and de Oliveira Neto, G., Biosensor for phenol based on the direct electron transfer blocking of peroxidase immobilising on silica-titanium, 390 (1999) 65

Rose, F., see Leflon, P., 327 (1996) 301

Rose, J.M., see Rose, M.J., 394 (1999) 299

Rose, M.J., Rose, J.M., M. Lunte, S., Audus, K.L., Carlson, R.G. and Stobaugh, J.F., Determination of angiotensin II in blood-brain barrier permeability studies using microbore LC with p-nitrophenyl-2,5-dihydroxyphenylacetate bis-tetrahydropyranyl ether as a pre-separation electrochemical labeling reagent, 394 (1999) 299

Rose, R.A., see Lin, M., 307 (1995) 449

Rosell, A., Palet, C. and Valiente, M., Selective separation and concentration of vanadium(V) by a chemical pumping hollowfiber supported liquid membrane, 349 (1997) 171

Rosell, A., Palet, C. and Valiente, M., Solvent impregnated hollow fibre for a selective preconcentration of Pb(II) in an on-line determination by flame atomic absorption spectrometry, 370 (1998) 141

Rosen, B.P., see Ramanathan, S., 369 (1998) 189

Rosenberg, E., see Hutter, W., 306 (1995) 237

Rosenberg, E., see Mittermayr, C.R., 388 (1999) 303

Rosenberg, M., see Katrlik, J., 331 (1996) 225

Rosenberg, M., see Katrlík, J., 356 (1997) 217

Rosenzweig, N., see McNamara, K.P., 356 (1997) 75

Rosenzweig, Z., see Ji, J., 397 (1999) 93

Rosenzweig, Z., see McNamara, K.P., 356 (1997) 75

Rosenzweig, Z., see McNamara, K.P., 361 (1998) 73

Rosenzweig, Z., see Nguyen, T., 400 (1999) 45

Rosenzweig, Z., see Xueping, L., 353 (1997) 263

Rose-Pehrsson, S.L., see Krech, J.H., 341 (1997) 53

Rose-Pehrsson, S.L., see Shaffer, R.E., 384 (1999) 305

Rosés, M., Bonet, M.J. and Bosch, E., Conductometric determination of dissociation constants of several acids and their tetrabutylammonium salts in propan-2-ol/water mixtures, 333 (1996) 241

Rosés, M., see Bolliet, D., 368 (1998) 129

Rosés, M., see Bosch, E., 302 (1995) 109

Rosés, M., see Bosch, E., 349 (1997) 367

Rosés, M., see Fonrodona, G., 335 (1996) 291

Rosés, M., see Muinasmaa, U., 340 (1997) 133

Rosés, M., see Oumada, F.Z., 382 (1999) 301

Rosés, M., see Ràfols, C., 302 (1995) 355

Rosés, M., see Ràfols, C., 338 (1997) 127 Rosés, M., see Ràfols, C., 350 (1997) 249

Rosés, M., see Rived, F., 374 (1998) 309

Rosman, K.J.R., see Bollhöfer, A., 390 (1999) 227

Rosman, K.J.R., see Chisholm, W., 311 (1995) 141

Rosman, K.J.R., see Chisholm, W., 347 (1997) 351

Ross, B., see Zuther, F., 313 (1995) 83

Rosset, R., see Hui, F., 314 (1995) 161

Rosset, R., see Hui, F., 339 (1997) 109

Rosset, R., see Machtalère, G., 322 (1996) 31

Rosset, R., see Sassiat, P., 306 (1995) 73

Rossi, A.V., see He, X., 389 (1999) 275

Rossi, S., see Ferri, T., 361 (1998) 113

Rossmann, A., Koziet, J., Martin, G.J. and Dennis, M.J., Determination of the carbon-13 content of sugars and pulp from fruit juices by isotope-ratio mass spectrometry (internal reference method) A European interlaboratory comparison, 340 (1997) 21

Rossmann, A., see Guillou, C., 388 (1999) 137

Rossmann, A., see Jamin, E., 347 (1997) 359

Rossmann, A., see Koziet, J., 302 (1995) 29

Rossmann, A., see Martin, G.J., 321 (1996) 137

Rosso, I., see Giraudi, G., 381 (1999) 133

Rosso, I., see Giraudi, G., 392 (1999) 85

Rossokhaty, V.K., see Volotovsky, V., 322 (1996) 77

Rostek, E., see Palys, M.J., 377 (1998) 29

Roth, U., see Moritz, W., 393 (1999) 49

Rothemund, S., see Krause, E., 352 (1997) 365

Rothmaier, M., Schaller, U., Morf, W.E. and Pretsch, E., Response mechanism of anion-selective electrodes based on mercury organic compounds as ionophores, 327 (1996) 17 Rouillon, R., Mestres, J.-J. and Marty, J.-L., Entrapment of chloroplasts and thylakoids in polyvinylalcohol-SbQ. Optimization of membrane preparation and storage conditions, 311 (1995) 437

Rouillon, R., see Piletskaya, E.V., 391 (1999) 1

Rouillon, R., see Piletskaya, E.V., 398 (1999) 49

Roulet, R., see Laurenczy, G., 359 (1998) 275

Roussin, J.A., Li, J. and Pardue, H.L., Evaluation of a predictive steady-state flow-injection method adapted to an open flow tube with a tracer, 303 (1995) 199

Rover Jr., L., Garcia, C.A.B., Neto, G.d.O., Kubota, L.T. and Galembeck, F., Acetylsalicylic acid determination in pharmaceutical samples by FIA-potentiometry using a salicylate-sensitive tubular electrode with an ethylene-vinyl acetate membrane, 366 (1998) 103

Rowell, F.J., Cumming, R.H. and Nitescu, I., Environmental analysis in the workplace; development of a rapid, sensitive ELISA for monitoring airborne alcalase, 316 (1995) 247

Rowell, F.J., see Cumming, R., 311 (1995) 377

Rowell, F.J., see Tang, L.X., 347 (1997) 235

Rowiński, P.v., see Jarzębińska, A., 396 (1999) 1

Rowland, J., see Shaw, A.D., 348 (1997) 357

Rowland, J.J., see Alsberg, B.K., 348 (1997) 389

Rowland, J.J., see Alsberg, B.K., 368 (1998) 29

Rowland, J.J., see Broadhurst, D., 348 (1997) 71

Rowland, J.J., see Winson, M.K., 348 (1997) 273 Rowlen, K.L., see Roark, S.E., 307 (1995) 341

Roy, D., see Salvador, A., 359 (1998) 57

Roy, M., see Fauzi, H., 365 (1998) 309

Ørsnes, H., Graf, T. and Degn, H., Measurement of inorganic acids with rotating ball inlet mass spectrometry, 390 (1999) 185

Ruan, C., see Chen, X., 382 (1999) 189

Ruan, X., see Bai, Y., 373 (1998) 39

Rubí, E., see Bauzá de Mirabó, F.M., 355 (1997) 203

Rubáček, L., see Vobecký, M., 386 (1999) 181

Rubin, V.N., see Aucélio, R.Q., 350 (1997) 231

Rubinson, J.F., see Mark, Jr., H.B., 385 (1999) 281

Rubio, R., Padró, A. and Rauret, G., Photoreduction-hydride generation: a new on-line system for the determination of selenate and selenite, 353 (1997) 91

Rubio, R., see Dagnac, T., 364 (1998) 19

Rubio, R., see Sabé, R., 398 (1999) 279

Rubio, R., see Sahuquillo, A., 382 (1999) 317

Rubio, S., see Borrego, E., 362 (1998) 285

Rubio, S., see Borrego, E., 384 (1999) 105

Rubio, S., see Borrego, E., 384 (1999) 175

Rubio, S., see Carreto, M.L., 349 (1997) 33

Rubio, S., see Casero, I., 345 (1997) 75

Rubio, S., see Lunar, M.L., 337 (1997) 341

Rubio, S., see Morales, F., 345 (1997) 87

Rubio, S., see Sicilia, D., 392 (1999) 29

Ruck, N., see Vaireanu, D.-I., 306 (1995) 115

Ruckebusch, C., Duponchel, L., Huvenne, J.P., Legrand, P., Nedjar-Arroume, N., Lignot, B., Dhulster, P. and Guillochon, D., Hydrolysis of hemoglobin surveyed by infrared spectroscopy. II. Progress predicted by chemometrics, 396 (1999) 241

Ruckebush, C., see Dupuy, N., 335 (1996) 79

Ruckruh, F., see Koncki, R., 333 (1996) 215

Rüdel, U. and Meyerhoff, M.E., Redox-modulated solute retention on iron-protoporphyrin-silica stationary phases, 392 (1999) 191

Rudnitskaya, A., see Legin, A., 385 (1999) 131

Rudolph, R., see Bergmann, W., 394 (1999) 233

Ruisánchez, I., Lozano, J., Larrechi, M.S., Rius, F.X. and Zupan, J., On-line automated analytical signal diagnosis in sequential injection analysis systems using artificial neural networks, 348 (1997) 113

Ruisánchez, I., see Pulido, A., 388 (1999) 273

Ruiz Medina, A., Fernández de Córdova, M.L. and Molina Díaz, A., A very simple resolution of the mixture paracetamol and salicylamide by flow injection-solid phase spectrophotometry, 394 (1999) 149

Ruiz, C. and Rodríguez, A.R., Study of the additions of cadmium and zinc to the cadmium, zinc metallothioneins using differential pulse polarography Influence of the pH, 325 (1996) 43

Ruiz, C. and Rodriguez, A.R., Characterisation of human metallothioneins from foetal liver and adult kidney using differential pulse polarography, 350 (1997) 305

Ruiz, C., Mendieta, J. and Rodriguez, A.R., The electrochemical behaviour of Cd,Zn thioneins depending on the solution pH using differential pulse polarography, 305 (1995) 285

Ruiz, M.A., Blázquez, M.G. and Pingarrón, J.M., Electrocatalytic and flow-injection determination of the antioxidant tert.-butylhydroxyanisole at a nickel phthalocyanine polymer modified electrode, 305 (1995) 49

Ruiz, S., see Farran, A., 317 (1995) 181

Rukhadze, M.D., S. Bezarashvili, G., V. Sebiskveradze, M. and R. Meyer, V., Separation of barbiturates in micellar liquid chromatography by means of a multifactor design, 356 (1997) 19

Rumenjak, V., see Milardović, S., 350 (1997) 91

Runnels, P., see Wightman, R. Mark, 400 (1999) 5

Rupérez, A. and Laserna, J.J., Surface-enhanced Raman spectrometry of chiral β-blocker drugs on colloidal silver, 335 (1996) 87

Rupérez, A., see Ayora, M.J., 355 (1997) 15

Rupérez, A., see Cabalin, L.M., 318 (1996) 203

Rupérez, A., see Hidalgo, M., 318 (1996) 229

Rupérez, A., see Pérez, R., 369 (1998) 197

Rupérez, A., see Pérez, R., 376 (1998) 255 Rupnik, M., see Zhang, X., 378 (1999) 135

Rupprecht, M. and Probst, T., Development of a method for the systematic use of bilinear multivariate calibration methods for the correction of interferences in inductively coupled plasmamass spectrometry, 358 (1998) 205

Ru-Qin, Y., see Yu-Long, X., 313 (1995) 185

Ru-Qin, Y., see Zhao-Hui, L., 325 (1996) 87

Ru-Qin, Y., see Zhong, C., 335 (1996) 117

Rusan, M., see Barakat, S.A., 355 (1997) 163

Russell, D.W., see Howard, A.G., 377 (1998) 95

Russell, G.C., see Mark, Jr., H.B., 385 (1999) 281

Russell, I.M. and G. Burton, S., Development and demonstration of an immobilised-polyphenol oxidase bioprobe for the detection of phenolic pollutants in water, 389 (1999) 161

Rusterholz, B., see Anticó, E., 388 (1999) 327

Rutan, S., see Lu, H., 388 (1999) 345

Rutan, S.C., see Andrew, K.N., 388 (1999) 315

Rutan, S.C., see Bouveresse, E., 348 (1997) 283

Rutan, S.C., see Jinchang, C., 335 (1996) 1

Rutan, S.C., see Wen, W., 335 (1996) 11

Rutan, S.C., see Zengbiao, L., 312 (1995) 127

Ruth, T., see Rodushkin, I., 378 (1999) 191

Rutkowska-Ferchichi, E., see Malyszko, J., 376 (1998) 357

Ruxiu, C., see Houping, H., 309 (1995) 271

Ruxiu, C., see Houping, H., 318 (1995) 63

Ruxiu, C., see Xinguo, W., 325 (1996) 105 Ruxiu, C., see Zuyun, H., 374 (1998) 99

Ruzgas, T., Csöregi, E., Emnéus, J., Gorton, L. and Marko-Varga, G., Peroxidase-modified electrodes: Fundamentals and application, 330 (1996) 123

Ruzgas, T., Emnéus, J., Gorton, L. and Marko-Varga, G., The development of a peroxidase biosensor for monitoring phenol and related aromatic compounds, 311 (1995) 245

Ruzgas, T., see Gorton, L., 400 (1999) 91

Ruzgas, T., see Lindgren, A., 347 (1997) 51

Ruzgas, T., see Tessema, M., 310 (1995) 161

Ruzgas, T., see Tessema, M., 349 (1997) 179

Ruzicka, J., Flow injection-renewable surface techniques, 308 (1995) 14

Ruzicka, J., see Peterson, K.L., 337 (1997) 99

Ryan, N.I., see Sentell, K.B., 307 (1995) 203

Rykowska, I., see Wasiak, W., 378 (1999) 101

## S

Saad, B., Ariffin, M.M. and Saleh, M.I., Paraquat sensors containing membrane components of high lipophilicities, 338 (1997) 89

Saarela, K.-E., see Lill, J.-O., 378 (1999) 273

Saavedra, S.S., see Phimphivong, S., 307 (1995) 403

Sabatini, R., see Hrijac, J.A., 350 (1997) 221

Sabé, R., Rubio, R. and García-Beltrán, L., Study and comparison of several chemical modifiers for selenium determination in human serum by Zeeman electrothermal atomic absorption spectrometry, 398 (1999) 279

Sabry, S.M., Application of computerized compensation method to derivative synchronous spectrofluorimetry. Analysis of floctafenine and floctafenic acid in plasma, 351 (1997) 211

Sabry, S.M., Determination of flufenamic and mefenamic acids in pharmaceutical preparations using organized media, 367 (1998) 41

Sabry, S.M., see Wintersteiger, R., 306 (1995) 273

Saby, C., Mizutani, F. and Yabuki, S., Glucose sensor based on carbon paste electrode incorporating poly(ethylene glycol)modified glucose oxidase and various mediators, 304 (1995) 33

Saby, C.A., see Jouan-Rimbaud, D., 350 (1997) 149

Sacchero, G., see Abollino, O., 305 (1995) 200

Sadaragani, I., see Wang, E., 397 (1999) 287

Sadek, M., see Coo, L.d., 386 (1999) 137

Sadik, O.A. and Wallace, G.G., Corrigendum to "Pulsed amperometric detection of proteins using antibody containing conducting polymers", 302 (1995) 131

Sadik, O.A., see Sargent, A., 376 (1998) 125

Sadok, S., Uglow, R.F. and Haswell, S.J., Determination of trimethylamine in fish by flow injection analysis, 321 (1996) 69

Sadok, S., Uglow, R.F. and Haswell, S.J., Determination of trimethylamine oxide in seawater and small volumes of seafood tissue extract using flow injection analysis, 334 (1996) 279

Saegusa, K., see Kiba, N., 354 (1997) 205

Safavi, A. and Abdollahi, H., Optical sensor for high pH values, 367 (1998) 167

Safavi, A. and Baezzat, M.R., Flow injection chemiluminescence determination of hydrazine, 358 (1998) 121

Safavi, A. and Baezzat, M.R., Flow injection chemiluminescence determination of pyrogallol, 368 (1998) 113

Safavi, A. and Pakniat, M., Dipicrylamine-modified triacetylcellulose membrane for optical pH and potassium ion measurement, 335 (1996) 227

Safavi, A. and Shams, E., Determination of trace amounts of copper(II) by adsorptive stripping voltammetry of its complex with pyrogallol red, 385 (1999) 265

Safavi, A. and Shams, E., Selective determination of ultra trace concentrations of molybdenum by catalytic adsorptive stripping voltammetry, 396 (1999) 215

Safavi, A., Pakniat, M. and Maleki, N., Design and construction of a flow system for determination of Cu(II) ions in water by means of a chemically modified carbon paste electrode, 335 (1996) 275

Safavi, A., see Haghighi, B., 354 (1997) 43

Safavi, A., see Haghighi, B., 357 (1997) 151

Sagastizabal, A., see Hawkins, S.J., 359 (1998) 125

Sagishima, K., see Fukushi, K., 383 (1999) 205

Sagrado, S., see Blasco, F., 348 (1997) 151

Sagrado, S., see Morales, M.M., 394 (1999) 109

Sagrado, S., see Pérez-Martinez, I., 304 (1995) 195

Sahin, U., see Soylak, M., 322 (1996) 111

Sahlin, E. and Jagner, D., Influence of Triton X-100 in stripping potentiometry, 333 (1996) 233

Sahlin, E., Jagner, D. and Ratana-ohpas, R., Mercury nucleation on glassy carbon electrodes, 346 (1997) 157

Sahoo, S.K. and Masuda, A., Precise determination of lithium isotopic composition by thermal ionization mass spectrometry in natural samples such as seawater, 370 (1998) 215

Sahuquillo, A., López-Sánchez, J.F., Rubio, R., Rauret, G., Thomas, R.P., Davidson, C.M. and Ure, A.M., Use of a certified reference material for extractable trace metals to assess sources of uncertainty in the BCR three-stage sequential extraction procedure, 382 (1999) 317

Saini, G., see Marengo, E., 317 (1995) 53

Saisho, Y., see Kawasaki, S., 365 (1998) 205

Saito, K., Murakami, S., Yamazaki, S., Muromatsu, A., Hirano, S., Takahashi, T., Yokota, K. and Nojiri, T., Detection of active methylene compounds having cyano and carbonyl groups with chemiluminescent reaction using tris(2,2'-bipyridine)ruthenium(III) prepared by on-line electrochemical oxidation, 378 (1999) 43

Saito, K., see Fukushi, K., 383 (1999) 205

Saito, M., The relationship between relative sensitivity factors and ionization potential in dc glow discharge mass spectrometry using Ar/0.2 vol.% H<sub>2</sub> mixture, 355 (1997) 129

Saitoh, K., Hasebe, T., Teshima, N., Kurihara, M. and Kawashima, T., Simultaneous flow-injection determination of iron(II) and total iron by micelle enhanced luminol chemiluminescence, 376 (1998) 247

Saitoh, M., see Kubo, H., 389 (1999) 89

Sajdok, J., Jandus, J., Valentová, O., Novotná, Z., Káš, J. and Daussant, J., A microplate technique for phospholipase D activity determination, 315 (1995) 109

Saka, T., see Inoue, M., 395 (1999) 165

Sakaguchi, T., see Koizumi, A., 399 (1999) 63

Sakai, H., Fujiwara, T. and Kumamaru, T., Sensitivity enhancement in the determination of silicate by ion-exclusion chromatography using luminol chemiluminescence detection, 302 (1995) 173

Sakai, H., Fujiwara, T. and Kumamaru, T., Determination of inorganic anions in water samples by ion-exchange chromatography with chemiluminescence detection based on the neutralization reaction of nitric acid and potassium hydroxide, 331 (1996) 239

Sakai, K., see Kai, M., 381 (1999) 155

Sakai, T., Ohno, N., Chung, Y.S. and Nishikawa, H., Spectrofluorimetric determination of berberine in oriental pharmaceutical preparations by flow-injection analysis coupled with liquidliquid extraction, 308 (1995) 329

Sakai, T., Ohta, H., Ohno, N. and Imai, J., Routine assay of creatinine in newborn baby urine by spectrophotometric flowinjection analysis, 308 (1995) 446

Sakai, T., see Inoue, Y., 346 (1997) 299

Sakamoto, C.M., see Zamzow, H., 377 (1998) 133

Sakamoto, H., see Shibutani, Y., 375 (1998) 81

Sakamoto, H., see Tomiyasu, T., 319 (1996) 199

Sakamoto, H., see Tomiyasu, T., 320 (1996) 217

Sakamoto, K., see Fujikura, T., 351 (1997) 387

Sakamoto, S., see Yoshikawa, M., 365 (1998) 59

 Sakamoto, Y., see Kikuchi, Y., 370 (1998) 173
 Sakao, S. and Uchida, H., Determination of trace elements in shellfish tissue samples by inductively coupled plasma mass spectrometry, 382 (1999) 215

Sakao, S., Ogawa, Y. and Uchida, H., Determination of trace elements in sea weed samples by inductively coupled plasma mass spectrometry, 355 (1997) 121

Sakata, R., see Yanagihara, H., 335 (1996) 63

Sakharov, I.Y., Stepanova, I.E. and Efremov, E.E., Enhancement of ELISA sensitivity for the detection of rabbit anti-HIV antibodies using APAAP complex, 319 (1996) 265

Sakslund, H., see Wang, J., 305 (1995) 3

Sakuragawa, A., Taniai, T. and Okutani, T., Fluorometric determination of microamounts of hydrogen peroxide with an immobilized enzyme prepared by coupling horseradish peroxidase to chitosan beads, 374 (1998) 191

Sakurai, J., see Yuchi, A., 387 (1999) 189

Salani, G., see De Bellis, G., 345 (1997) 1

Salau, J.S., see Barceló, D., 376 (1998) 49

Saleemuddin, M., see Sosnitza, P., 368 (1998) 197

Saleh, M.I., see Saad, B., 338 (1997) 89

Salih, B., Say, R., Denizli, A., Genc, O. and Piskin, E., Determination of inorganic and organic mercury compounds by capillary gas chromatography coupled with atomic absorption spectrometry after preconcentration on dithizone-anchored poly(ethylene glycol dimethacrylate-hydroxyethylmethacrylate) microbeads, 371 (1998) 177

Salinas, F., see Aaron, J.J., 314 (1995) 45

Salinas, F., see Espinosa-Mansilla, A., 313 (1995) 103

Salinas, F., see Espinosa-Mansilla, A., 376 (1998) 365

Salinas, F., see Galeano Díaz, T., 384 (1999) 185 Salinas, F., see García, M.D.G., 348 (1997) 177

Salinas, F., see Guiberteau, A., 305 (1995) 219

Salmas, F., see Guiberteau, A., 303 (1993) 219

Saling, C., see Taylor, M.J.C., 329 (1996) 275

Saling, C., see van Staden, J.F., 350 (1997) 37

Salituro, G., see Tsipouras, A., 316 (1995) 161

Salmi, T.O., see Heikka, R.A., 349 (1997) 287

Salom, D., Bañó, M.C., Braco, L. and Abad, C., HPLC in the characterisation of conformational species of linear gramicidins, 352 (1997) 309

Salou, C., see Howard, A.G., 333 (1996) 89

Salvadó, V., see Anticó, E., 327 (1996) 267

Salvadó, V., see Fontàs, C., 346 (1997) 199

Salvadó, V., see Iglesias, M., 381 (1999) 61

Salvador, A., Herbreteau, B., Breton, P., Roy, D., Brigand, P., Bru, N. and Dreux, M., Diastereoisomer separation of methylidene malonate 2.1.2 oligomerization products by liquid chromatography using a non-chiral stationary phase, 359 (1998) 57

Salvador, A., see March, J.G., 367 (1998) 63

Salvador, A., see Piñeiro-Avila, G., 371 (1998) 297

Salvador, J., see Galceran, J., 305 (1995) 273

Salvi, A.M., see Casella, I.G., 354 (1997) 333

Sammartaus, S., see De Stefano, C., 398 (1999) 103

Sammartino, M.P., see Campanella, L., 305 (1995) 32

Sammartino, M.P., see Campanella, L., 385 (1999) 59

Sammartino, M.P., see Campanella, L., 393 (1999) 109

Samukawa, T., Ohta, K., Onitsuka, M., Ito, Y. and Motohashi, R., Numerical approach to the explanation of the response time of the Severinghaus type electrode, 316 (1995) 83

San Vicente de la Riva, B., Manuel Costa-Fernández, J., Pereiro, R. and Sanz-Medel, A., Flow-through room temperature phosphorescence optosensing for the determination of lead in sea water, 395 (1999) 1

Sanada, M., see Motomizu, S., 308 (1995) 406

Sánchez Misiego, A., see Gil, E.P., 315 (1995) 69

Sánchez Pérez, A., see Delgado Zamarreño, M.M., 386 (1999) 99

Sanchez, A.L., see Wigley, F., 380 (1999) 73

Sánchez, F.C., Toft, J., Kvalheim, O.M. and Massart, D.L., Eigenstructure tracking analysis for assessment of peak purity in highperformance liquid chromatography with diode array detection, 314 (1995) 131

Sánchez, F.G., Díaz, A.N. and García, J.A.G., Study of the enhanced chemiluminescence from the luminol-horseradish peroxidasehydrogen peroxide-p-coumaric acid system at very short times: stopped flow selective determination of p-coumaric acid in beers, 310 (1995) 399

Sánchez, F.G., Gutierrez, A.F. and Blanco, C.C., Variable-angle scanning fluorescence spectrometry for the simultaneous determination of three diuretic drugs, 306 (1995) 313

Sánchez, F.G., see Díaz, A.N., 321 (1996) 213

Sanchez, F.G., see Diaz, A.N., 327 (1996) 161

Sànchez, J., Beltran, A., Alonso, J., Jiménez, C. and del Valle, M., Development of a new ion-selective field-effect transistor sensor for anionic surfactants: Application to potentiometric titrations, 382 (1999) 157

Sànchez, J., see Alonso, J., 308 (1995) 115

Sánchez, J.M., see Granadillo, V.A., 306 (1995) 139

Sánchez, L., see Lorenzo, E., 309 (1995) 79

Sánchez, M.S. and Sarabia, L.A., GINN (Genetic Inside Neural Network): towards a non-parametric training, 348 (1997) 533

Sánchez-Bayo, F., Ward, R. and Beasley, H., A new technique to measure bird's dietary exposure to pesticides, 399 (1999) 173

Sánchez-Cabezudo, M., Fernández-Romero, J.M. and Luque de Castro, M.D., Fluorimetric-flow injection determination of theophylline based on its inhibitory effect on immobilized alkaline phosphatase, 308 (1995) 159

Sánchez-Dasi, M.J., Garrigues, S., Cervera, M.L. and de la Guardia, M., On-line solvent recycling: a tool for the development of clean analytical chemistry in flow injection Fourier transform infrared spectrometry. Determination of ketoprofen, 361 (1998) 253

Sánchez-Merlos, M., see López-García, I., 396 (1999) 279

Sánchez-Merlos, M., see López-García, I., 328 (1996) 19

Sánchez-Pedreño, C., Albero, M.I., García, M.S. and Ródenas, V., Flow-injection spectrophotometric determination of carbimazole and methimazole, 308 (1995) 457

Sánchez-Pedreño, C., Ortuño, J.A. and Hernández, J., Determination of chlorine and dissolved oxygen in waters and of ascorbic acid in pharmaceuticals by iodimetric potentiometric titration using a plasticized poly(vinyl chloride) membrane electrode, 333 (1996) 107

Sánchez-Pedreño, C., Ortuño, J.A. and López, M.d.C., Derivative dynamic response of ion-selective electrodes. Application to the precipitate-based iodide-selective electrode in the presence of interfering ions, 315 (1995) 63

Sanchez-Perez, A., see Delgado-Zamarreño, M.M., 315 (1995) 201

Sánchez-Rodas, D., see Gómez-Ariza, J.L., 399 (1999) 295

Sánchez-Viñas, M., see Bagur, G., 309 (1995) 157

Sancho, J.V., see Hidalgo, C., 338 (1997) 223

Sander, S., Simultaneous adsorptive stripping voltammetric determination of molybdenum(VI), uranium(VI), vanadium(V), and antimony(III), 394 (1999) 81

Sander, S., see Heppeler, F., 319 (1996) 19

Sander, S., Wagner, W. and Henze, G., Direct determination of uranium traces by adsorptive stripping voltammetry, 305 (1995) 154

Sander, S., Wagner, W. and Henze, G., Possibilities for the automated determination of trace concentrations of uranium in water samples by adsorptive stripping voltammetry, 349 (1997) 93

Sanders, M.G., see Andrew, K.N., 346 (1997) 113

Sanders, P.F., see Yujun, Y., 341 (1997) 73

Šandor, M., Geistmann, F. and Schuster, M., An anthracene-substituted benzoylthiourea for the selective determination of Hg(II) in micellar media, 388 (1999) 19

Sangiorgio, P., see Ferri, T., 321 (1996) 185

Sangiorgio, P., see Ferri, T., 361 (1998) 113

Sangiorgio, P., see Ferri, T., 385 (1999) 337

Sano, T., see Kaya, K., 386 (1999) 107

Santa, T., see Prados, P., 344 (1997) 227

Santana Rodríguez, J.J., see Eiguren Fernández, A., 358 (1998) 145Santandreu, M., Alegret, S. and Fàbregas, E., Determination of β-HCG using amperometric immunosensors based on a conducting immunocomposite, 396 (1999) 181

Santelli, R.E., see de Jesus, D.S., 366 (1998) 263

Santelli, R.E., see Ferreira, S.L.C., 378 (1999) 287

Santelli, R.E., see Maniasso, N., 331 (1996) 17

Santi, O., see Gianazza, E., 372 (1998) 99

Santiago, J.M., see López-Cueto, G., 335 (1996) 185

Santos Zalduegui, J.F., see Pin, C., 339 (1997) 79

Santos, E.B., Esteves, V.I., Rodrigues, J.P. and Duarte, A.C., Humic substances' proton-binding equilibria: assessment of errors and limitations of potentiometric data, 392 (1999) 333

Santos, J.H., see Cardwell, T.J., 340 (1997) 169

Santos, J.L., see Lapa, R.A., 366 (1998) 209

Santos, J.L., see Lapa, R.A., 300 (1998) 209 Santos, J.L., see Lapa, R.A., 377 (1998) 103

Santos, J.L.M., see Lapa, R.A.S., 351 (1997) 223

Santucci, B., see Alimonti, A., 306 (1995) 35

Sanz, A., see Pérez-Ruiz, T., 308 (1995) 299

Sanz-Asensio, J., Martínez-Soria, M.T., Plaza-Medina, M. and Pérez Clavijo, M., Determination of monomethylarsenous acid by hydride generation – gas phase molecular absorption spectrometry, 381 (1999) 331

Sanz-Asensio, J., Pérez-Clavijo, M. and Martinez-Soria, M.T., Determination of dimethylarsinic acid by hydride generation gas phase molecular absorption spectrometry, 343 (1997) 39

Sanz-Medel, A., see Costa-Fernández, J.M., 360 (1998) 17

Sanz-Medel, A., see Marchante-Gayón, J.M., 400 (1999) 307 Sanz-Medel, A., see Rodríguez-Fernández, J., 398 (1999) 23

Sanz-Medel, A., see San Vicente de la Riva, B., 395 (1999) 1

Sanz-Medel, A., see San Vicente de la Riva, B., 393 (1999) 1
Sanz-Medel, A., see Valdés-Hevia y Temprano, M.C., 309 (1995)

Sanz-Nebot, V., see Barbosa, J., 317 (1995) 75

Sanz-Nebot, V., see Barbosa, J., 347 (1997) 295

Sanz-Nebot, V., see Barbosa, J., 351 (1997) 397

Sanz-Nebot, V., see Barbosa, J., 389 (1999) 43

Sarabia, L.A., Ortiz, M.C. and Tomás, X., Performance of the orthogonal least median squares regression, 348 (1997) 11

Sarabia, L.A., see Arcos, M.J., 339 (1997) 63

Sarabia, L.A., see Sánchez, M.S., 348 (1997) 533

Saraji, M., see Miran Beigi, A.A., 381 (1999) 117

Saravia, M.L.M.F.S., see de Gracia, J., 348 (1997) 143

Sârbu, C., see Pop, H.F., 310 (1995) 269

Sargent, A. and Sadik, O.A., Pulsed electrochemical technique for monitoring antibody-antigen reactions at interfaces, 376 (1998) 125

Sarijo, S.H., see Savage, A.L., 375 (1998) 1

Saroop, S., see Narinesingh, D., 354 (1997) 189

Sartini, R.P., Oliveira, C.C., Zagatto, E.A. and Bergamin Filho, H., Determination of reducing sugars by flow injection gravimetry, 366 (1998) 119

Sartini, R.P., see Brienza, S.M.B., 308 (1995) 269

Sartini, R.P., see Neto, J.A.G., 306 (1995) 343

Sartini, R.P., see Oliveira, C.C., 332 (1996) 173

Sartini, R.P., see Oliveira, C.C., 350 (1997) 31

Sartini, R.P., see Zagatto, E.A., 400 (1999) 249

Sarzanini, C., see Abollino, O., 305 (1995) 200

Sarzanini, C., see Abollino, O., 375 (1998) 293

Sarzanini, C., see Abollino, O., 375 (1998) 299

Sarzanini, C., see Abollino, O., 383 (1999) 243

Sarzanini, C., see Bruzzoniti, M.C., 322 (1996) 49

Sarzanini, C., see Bruzzoniti, M.C., 353 (1997) 239

Sarzanini, C., see Bruzzoniti, M.C., 382 (1999) 291

Sasaki, K., see Hisamoto, H., 342 (1997) 31

Sasaki, S., Kai, E., Miyachi, H., Muguruma, H., Ikebukuro, K., Ohkawa, H. and Karube, I., Direct determination of etofenprox using surface plasmon resonance, 363 (1998) 229

Sasaki, S., Nagata, R., Hock, B. and Karube, I., Novel surface plasmon resonance sensor chip functionalized with organic silica compounds for antibody attachment, 368 (1998) 71

Sasaki, S., see Hayashi, K., 329 (1996) 127

Sasaki, S., see Lee, K.H., 386 (1999) 211

Sasaki, S., see Lee, K.H., 398 (1999) 161

Sasaki, S., see Suzuki, H., 387 (1999) 103

Sasaki, S., see Yang, Z., 357 (1997) 41

Sasaki, S., Yokoyama, K., Tamiya, E., Karube, I., Hayashi, C., Arikawa, Y. and Numata, M., Sulfate sensor using Thiobacillus ferrooxidans, 347 (1997) 275

Sasaki, S.-i., see Bangov, I.P., 314 (1995) 101

Sasamoto, H., Maeda, M. and Tsuji, A., Chemiluminescent assay of alkaline phosphatase using phenacyl phosphate, 306 (1995) 161

Sasamoto, H., Maeda, M. and Tsuji, A., Chemiluminescent enzymatic assay for cholesterol in serum using lucigenin, 310 (1995) 347

Sasamoto, H., Maeda, M., Tsuji, A. and Manita, H., Highly sensitive immunological assays for human chorionic gonadotrophin and prostatic acid phosphatase using phenacyl phosphate as a chemiluminescent label, 309 (1995) 221

Sasamoto, K., see Ishida, J., 309 (1995) 211

Sassiat, P., Machtalere, G., Hui, F., Kolodziejczyk, H. and Rosset, R., Liquid chromatographic determination of base oil composition and content in lubricating oils containing dispersants of the polybutenylsuccinimide type, 306 (1995) 73

Sastre, A., Miralles, N. and Bosch, E., Solvent extraction of alkylphosphoric acid derivatives between water and immiscible organic solvents, 350 (1997) 197

Sastre, A., see Baraj, B., 319 (1996) 191

Sastre, A., see El Aamrani, F.Z., 329 (1996) 247

Sastre, A.M., see El Aamrani, F.Z., 382 (1999) 205

Satake, M., see Horita, K., 350 (1997) 295

Satish, S., see Koshy, V.J., 307 (1995) 55

Sato, A., see Nomura, T., 343 (1997) 209

Sato, A., see Nomura, T., 374 (1998) 291

Sato, H., see Katayama, M., 303 (1995) 333

Sato, K., see Kumazawa, T., 387 (1999) 53

Sato, M., see Kurosawa, T., 365 (1998) 249

Sato, Y., see Mizutani, F., 364 (1998) 173 Satoh, K., see Hisamoto, H., 396 (1999) 131

Satoh, S., see Hisamoto, H., 396 (1999) 131

Satyanarayana, K., Durani, S. and Ramanaiah, G.V., Determination of scandium in geological materials, rare earth minerals and niobate/tantalate-type of samples by inductively coupled plasma atomic emission spectrometry after solvent extraction/acid hydrolysis separation, 376 (1998) 273 Saulnier, J., see Rival, S., 312 (1995) 213

Saunders, G., see Goodacre, R., 313 (1995) 25

Saurina, J. and Hernández-Cassou, S., Flow-injection and stoppedflow completely continuous flow spectrophotometric determinations of aniline and cyclohexylamine, 396 (1999) 151

Saurina, J., Hernández-Cassou, S. and Tauler, R., Continuous flow titration system for the generation of multivariate spectrophotometric data in the study of acid-base equilibria, 312 (1995) 189

Saurina, J., Hernández-Cassou, S. and Tauler, R., Second order multivariate curve resolution applied to the flow injection analysis of mixtures of amino acids, 335 (1996) 41

Saurina, J., Hernández-Cassou, S., Fábregas, E. and Alegret, S., Potentiometric biosensor for lysine analysis based on a chemically immobilized lysine oxidase membrane, 371 (1998) 49

Saurina, J., see Cabero, C., 381 (1999) 307

Saurina, J., see Smilde, A.K., 398 (1999) 237

Savage, A.L., Sarijo, S.H. and Baird, J., A novel screening method for tetracycline in milk combining sensitized-Eu(III) fluorescence and immunoaffinity techniques, 375 (1998) 1

Savage, I. and Haswell, S.J., Multivariate experimental methodology for the evaluation of sample preparation techniques used in simultaneous multielemental analysis using total reflection X-ray fluorescence spectroscopy, 376 (1998) 145

Savitsky, A.P., see Matveeva, E.G., 361 (1998) 27

Sawaguchi, T., see Mizutani, F., 364 (1998) 173

Sawamura, M., see Ukeda, H., 308 (1995) 261

Sawicka-Kapusta, K., see Lee, K.M., 395 (1999) 179

Sawula, G., see Djane, N.-K., 316 (1995) 305

Saxena, R. and Singh, A.K., Pyrocatechol Violet immobilized Amberlite XAD-2: synthesis and metal-ion uptake properties suitable for analytical applications, 340 (1997) 285

Say, R., see Salih, B., 371 (1998) 177

Sbai, M., Lyazidi, S.A., Lerner, D.A., del Castillo, B. and Martin, M.A., Modified β-cylclodextrins as enhancers of fluorescence emission of carbazole alkaloid derivatives, 303 (1995) 47

Sbirrazzuoli, N., see Vyazovkin, S., 355 (1997) 175

Scaboo, K.M., Grover, W.H. and Chambers, J.Q., Inverse derivative chronopotentiometry/quartz crystal microgravimetry of solid conducting salt films, 380 (1999) 47

Scarano, G. and Morelli, E., Determination of phytochelatins by cathodic stripping voltammetry in the presence of copper(II), 319 (1996) 13

Scarcelli, D., see D'Arrigo, P., 304 (1995) 249

Scczepaniak, W., Czyżowicz, B. and Ren, M., Voltammetric determination of Prometrine in soil and water, 305 (1995) 207

Schafer, H., see Brainina, K., 330 (1996) 175

Schäfer, K., Accelerated solvent extraction of lipids for determining the fatty acid composition of biological material, 358 (1998) 69

Schaller, G., see Lada, M.W., 307 (1995) 217

Schaller, R.B., Arnold, C. and Pretsch, E., New parameters for predicting HNMR chemical shifts of protons attached to carbon atoms, 312 (1995) 95

Schaller, U., see Rothmaier, M., 327 (1996) 17

Schechter, I., see Bulatov, V., 343 (1997) 93

Schechter, I., see Hassoon, S., 368 (1998) 77

Schechter, I., see Liang, X., 322 (1996) 195

Schechter, I., see Litani-Barzilai, I., 339 (1997) 193

Schechter, I., see Litani-Barzilai, I., 348 (1997) 345

Schechter, I., see Sluszny, C., 367 (1998) 1

Schedl, M., see Knopp, D., 399 (1999) 115

Scheeline, A., see Lvovich, V., 354 (1997) 315

Scheller, F., see Makower, A., 357 (1997) 13

Scheller, F.W., see Bier, F.F., 328 (1996) 27

Scheller, F.W., see Bier, F.F., 344 (1997) 119

Scheller, F.W., see Eremenko, A.V., 358 (1998) 5

Scheller, F.W., see Ghindilis, A.L., 304 (1995) 25

Scheller, F.W., see Kleinjung, F., 350 (1997) 51

Scheller, F.W., see Lisdat, F., 368 (1998) 233

Scheller, F.W., see Pfeiffer, D., 351 (1997) 127

Scheller, F.W., see Stöcklein, W.F., 362 (1998) 101 Scheller, F.W., see Streffer, K., 362 (1998) 81

Scheller, F.W., see Stieller, K., 302 (1998) 81

Scheller, F.W., see Wollenberger, U., 329 (1996) 231

Scheper, T., Hitzmann, B., Stärk, E., Ulber, R., Faurie, R., Sosnitza, P. and Reardon, K.F., Bioanalytics: detailed insight into bioprocesses, 400 (1999) 121

Scheper, T., see Beyer, K., 309 (1995) 301

Scheper, T., see Hitzmann, B., 313 (1995) 55

Scheper, T., see Hitzmann, B., 348 (1997) 135

Scheper, T., see Menzel, C., 317 (1995) 259

Scheper, T., see Rhee, J.I., 374 (1998) 177

Scheper, T., see Sosnitza, P., 368 (1998) 197

Scheper, T., see Ulber, R., 373 (1998) 253
Schepers, D., Schulze, G. and Frenzel, W., Spectrophotometric flow-through gas sensor for the determination of atmospheric nitrogen dioxide, 308 (1995) 109

Scherer, K., see Baumstark-Khan, C., 387 (1999) 281

Schiavon, G., Comisso, N., Toniolo, R. and Bontempelli, G., An electrochemical quartz crystal microbalance-based investigation of the properties displayed by electroactive polypyridine films, 305 (1995) 212

Schiewe, J., see Bond, A.M., 345 (1997) 67

Schindler, R. and Lendl, B., Simultaneous determination of enzyme activities by FTIR-spectroscopy in an one-step assay, 391 (1999) 19

Schindler, R., Lendl, B. and Kellner, R., Simultaneous determination of α-amylase and amyloglucosidase activities using flow injection analysis with fourier transform infrared spectroscopic detection and partial least-squares data treatment, 366 (1998) 35

Schipper, E.F., Bergevoet, A.J.H., Kooyman, R.P.H. and Greve, J., New detection method for atrazine pesticides with the optical waveguide Mach-Zehnder immunosensor, 341 (1997) 171

Schipulo, E.V., see Petrukhin, O.M., 353 (1997) 11

Schmeling, M. and Klockow, D., Sample collection and preparation for analysis of airborne particulate matter by total reflection Xray fluorescence spectrometry, 346 (1997) 121

Schmid, R.D., see Ji, H.S., 387 (1999) 39

Schmid, R.D., see Minning, S., 378 (1999) 293

Schmid, R.D., see Yano, K., 340 (1997) 41

Schmid, R.D., see Zocher, F., 391 (1999) 345

Schmidt, H.-L., see Jamin, E., 347 (1997) 359

Schmidt, H.-L., see Schuhmann, W., 315 (1995) 113

Schmidt, H.-L., see Werner, R.A., 319 (1996) 159

Schmitt, N., see Tessier, L., 347 (1997) 207

Schmitt, V.O., see Szpunar, J., 332 (1996) 225

Schnakenberg, U., see Paeschke, M., 305 (1995) 126

Schneider, J., see Renneberg, R., 325 (1996) 161

Schneider, T.W., Frye, G.C., Martin, S.J. and Spates, J.J., Investigation of the quartz resonator as an industrial cleaning monitor, 309 (1995) 53

Schnierle, P., see Kappes, T., 350 (1997) 141

Schnierle, P., see Kappes, T., 393 (1999) 77

Schöngarth, K. and Hitzmann, B., Simultaneous calibration in flowinjection analysis using multiple-injection signals evaluated by partial least squares, 363 (1998) 183

Schöning, M.J., see Thust, M., 323 (1996) 115

Schoonheydt, R.A., see Verberckmoes, A.A., 348 (1997) 267

Schramel, P., see Ochsenkühn-Petropulu, M., 313 (1995) 243

Schreiber, S., see Oepkemeier, S., 393 (1999) 103

Schreiner, M., see Vierle, O., 393 (1999) 131

Schroeder, F., see Gebhart, E., 377 (1998) 263

Schroeder, P.A., see Hurst, V.J., 337 (1997) 233

Schroeder, W.H., see Mandal, R., 395 (1999) 309

Schroeder, W.H., see Mandal, R., 395 (1999) 323

Schubert, J., see Jürgens, H., 302 (1995) 289

Schuetz, A.J., see Weller, M.G., 393 (1999) 29

Schügerl, K., see Burfeind, J., 322 (1996) 131 Schügerl, K., see Hitzmann, B., 348 (1997) 135

Schugeri, K., see Hitzinami, B., 548 (1997) 155

Schügerl, K., see Jürgens, H., 302 (1995) 289

Schügerl, K., see Jürgens, H., 315 (1995) 153

Schügerl, K., see Menzel, C., 317 (1995) 259 Schügerl, K., see Rhee, J.I., 355 (1997) 55

Schügerl, K., see Rhee, J.I., 374 (1998) 177

Schügerl, K., see Tservistas, M., 316 (1995) 117

Schügerl, K., see van Putten, A.B., 317 (1995) 247

Schuhmann, W., Wohlschläger, H., Huber, J., Schmidt, H.-L. and Stadler, H., Development of an extremely flexible automatic analyzer with integrated biosensors for on-line control of fermentation processes, 315 (1995) 113

Schulman, S.G., see Rakicioglu, Y., 359 (1998) 269

Schulman, S.G., see Sun, J., 338 (1997) 1

Schulman, S.G., Shangxian, C., Fenglian, B., Leiner, M.J.P., Weis, L. and Wolfbeis, O.S., Dependence of the fluorescence of immobilized 1-hydroxypyrene-3,6,8-trisulfonate on solution pH: extension of the range of applicability of a pH fluorosensor, 304 (1995) 165

Schulman, S.G., Townsend, R.W. and Baeyens, W.R.G., Protontransfer kinetics of photoexcited 2-hydroxybiphenyl in aqueous methanol solutions, 303 (1995) 25

Schulmeister, T., see Streffer, K., 362 (1998) 81

Schulten, H.-R., see Wilcken, H., 336 (1996) 201

Schultz, J.S., see Ballerstadt, R., 345 (1997) 203

Schulz, H., Derrick, M. and Stulik, D., Simple encoding of infrared spectra for pattern recognition Part 2. Neural network approach using back-propagation and associative Hopfield memory, 316 (1995) 145

Schulze, B., see Hitzmann, B., 313 (1995) 55

Schulze, G., see Schepers, D., 308 (1995) 109

Schumacher, M.M., see Maeder, M., 337 (1997) 73

Schurig, V., see Hierlemann, A., 346 (1997) 327

Schuster, M. and Schwarzer, M., Selective determination of palladium by on-line column preconcentration and graphite furnace atomic absorption spectrometry, 328 (1996) 1

Schuster, M., see Sandor, M., 388 (1999) 19

Schuster, M., see Unterreitmaier, E., 309 (1995) 339

Schutt, W.S., Sigman, M.E. and Yuzhuo, L., Fluorimetric investigation of reactions between ozone and excited state aromatic compounds on silica gel, 319 (1996) 369

Schwake, A., Cammann, K., Smirnova, A.L., Levitchev, S.S., Khitrova, V.L., Grekovich, A.L. and G. Vlasov, Y., Potentiometric properties and impedance spectroscopic data of poly(vinyl chloride) membranes containing quaternary ammonium salts of different chemical structure, 393 (1999) 19

Schwartz, M., Kline, W. and Matuszewski, B., Determination of a cyclic hexapeptide (L-743 872), a novel pneumocandin antifungal agent in human plasma and urine by high-performance liquid chromatography with fluorescence detection, 352 (1997) 299

Schwarzer, M., see Schuster, M., 328 (1996) 1

Schwedt, G., see Blum, U., 360 (1998) 101

Schwedt, G., see Buck, S., 390 (1999) 141

Schwedt, G., see Danzer, T., 318 (1996) 275

Schwedt, G., see Danzer, T., 325 (1996) 1

Schwedt, G., see Pozdniakova, S., 351 (1997) 41

Schwedt, G., see Stein, K., 336 (1996) 113

Schwedt, G., see Tian, S., 317 (1995) 189

Schweitzer, R.C. and B. Morris, J., The development of a quantitative structure property relationship (QSPR) for the prediction of dielectric constants using neural networks, 384 (1999) 285

Schwitzgebel, G., see Bund, A., 364 (1998) 189

Scibona, G., see Mazzei, F., 316 (1995) 79

Scollary, G.R., see Cardwell, T.J., 308 (1995) 197

Seabra e Barros, J., see Bettencourt da Silva, R.J., 393 (1999) 167

Sebiskveradze, M.V., see Rukhadze, M.D., 356 (1997) 19

Sedjil, M., Lu, G.N., Michard, G. and Prevot, F., A colorimetric method with the use of BDJ detector for seawater pH measurement, 377 (1998) 179

Sedykh, E.M., see Garboś, S., 342 (1997) 167

Segal, M., see Hoffmann, R., 352 (1997) 327

Segura-Carretero, A., see Cruces-Blanco, C., 318 (1996) 357

Seifarth, H., see Pham, M.T., 350 (1997) 209

Seifert, M., Haindl, S. and Hock, B., Development of an enzyme linked receptor assay (ELRA) for estrogens and xenoestrogens, 386 (1999) 191

Seitz, W. Rudolf, Rooney, M.T., Miele, E.W., Wang, H., Kaval, N., Zhang, L., Doherty, S., Milde, S. and Lenda, J., Derivatized, swellable polymer microspheres for chemical transduction, 400 (1999) 55

Sekaly, A.L., see Mandal, R., 395 (1999) 309

Sekaly, A.L.R., see Mandal, R., 395 (1999) 323

Seki, A., Ikeda, S.i., Kubo, I. and Karube, I., Biosensors based on light-addressable potentiometric sensors for urea, penicillin and glucose, 373 (1998) 9

Seki, A., Motoya, K., Watanabe, S. and Kubo, I., Novel sensors for potassium, calcium and magnesium ions based on a silicon transducer as a light-addressable potentiometric sensor, 382 (1999) 131

Sekulic, S.S., see JungHwan, C., 348 (1997) 303

Sela, I., see Litani-Barzilai, I., 339 (1997) 193

Selby, M., see Yongnian, N., 316 (1995) 233

Seliskar, C.J., see Barroso-Fernandez, B., 370 (1998) 221

Seliskar, C.J., see Hu, Z., 369 (1998) 93

Selves, J.-L., see Burg, P., 317 (1995) 107

Semchyschyn, D., see Brennan, J.D., 336 (1996) 157

Semenchuk, I.N., see Reshetilov, A.N., 347 (1997) 19

Semin, D.J., see Roark, S.E., 307 (1995) 341

Sendra, B., Panadero, S. and Gómez-Hens, A., Kinetic determination of bromadiolone based on lanthanide-sensitized luminescence, 355 (1997) 145

Sendra, J.M.B., see Nechar, M., 316 (1995) 185

Sener, E., Karagözler, A.E. and Pekel, A.T., Simplex optimization of reaction variables in the production of cobalt(III) acetate in a bipolar packed-bed reactor, 335 (1996) 35

Seno, H., see Kumazawa, T., 387 (1999) 53

Sentell, K.B., Ryan, N.I. and Henderson, A.N., Temperature and solvation effects on homologous series selectivity in reversed phase liquid chromatography, 307 (1995) 203

Senthil Kumar, A., see Zen, J.M., 396 (1999) 39

Sentürk, Z., see Gerlache, M., 349 (1997) 59

Sen-Yuan, H., see Jyh-Myng, Z., 310 (1995) 407

Seok, L., see Tsipouras, A., 316 (1995) 161

Seok, Y.-J., Yang, K.-S. and Kang, S.-O., A simple spectrophotometric determination of dissociation constants of organic compounds, 306 (1995) 351

Sepaniak, M.J., see Stokes, D.L., 399 (1999) 201

Seprődi, J., see Idei, M., 372 (1998) 273

Sergeeva, L.M., see Sergeyeva, T.A., 392 (1999) 105

Sergeyeva, T.A., Lavrik, N.V., Rachkov, A.E., Kazantseva, Z.I., Piletsky, S.A. and El'skaya, A.V., Hydrogen peroxide – sensitive enzyme sensor based on phthalocyanine thin film, 391 (1999) 289

Sergeyeva, T.A., Piletsky, S.A., Brovko, A.A., Slinchenko, E.A., Sergeeva, L.M. and El'skaya, A.V., Selective recognition of atrazine by molecularly imprinted polymer membranes. Development of conductometric sensor for herbicides detection, 392 (1999) 105

Sergeyeva, T.A., see Piletskaya, E.V., 391 (1999) 1

Sergeyeva, T.A., Soldatkin, A.P., Rachkov, A.E., Tereschenko, M.I., Piletsky, S.A. and El'skaya, A.V., β-Lactamase label-based potentiometric biosensor for α-2 interferon detection, 390 (1999) 73

Sergienko, A., see Migdall, A., 380 (1999) 311

Serignese, V., see Aboul-Enein, H.Y., 319 (1996) 187

Serrano, J., see Peris, M., 354 (1997) 249

Serrano, R., see Hernández, F., 374 (1998) 215

Serrano, S.H., see Katekawa, E., 385 (1999) 345

Serrano, S.H.P., see Dantoni, P., 366 (1998) 137

Serrano, S.H.P., see Oliveira Brett, A.M., 385 (1999) 401

Servi, S., see D'Arrigo, P., 304 (1995) 249

Serwer, P. and Griess, G.A., Adaptation of pulsed-field gel electrophoresis for the improved fractionation of spheres, 372 (1998) 299

Setford, S.J., see Kröger, S., 368 (1998) 219

Setford, S.J., Van Es, R.M., Blankwater, Y.J. and Kröger, S., Receptor binding protein amperometric affinity sensor for rapid β-lactam quantification in milk, 398 (1999) 13 Seubert, A., see Borrmann, G., 332 (1996) 233

Seubert, A., see Borrmann, G., 386 (1999) 77

Seubert, A., see Busch, M., 399 (1999) 223

Seubert, A., see Nowak, M., 359 (1998) 193

Seung, Y.L., see Ji, H.L., 329 (1996) 117

Sevilla, M. Teresa, see Ortiz Viana, M. Mar, 382 (1999) 179

Sevillano Cabeza, A., see Molins-Legua, C., 378 (1999) 83

Sevillano-Cabeza, A., see Campins-Falcó, P., 334 (1996) 199

Sevillano-Cabeza, A., see Campins-Falcó, P., 344 (1997) 125 Sevillano-Cabeza, A., see Gallo-Martinez, L., 370 (1998) 115

Shadrin, A., see Özel, M.Z., 346 (1997) 73

Shaffer, R.E. and Small, G.W., Comparison of optimization algorithms for piecewise linear discriminant analysis: application to Fourier transform infrared remote sensing measurements, 331 (1996) 157

Shaffer, R.E., Rose-Pehrsson, S.L. and McGill, R. Andrew, A comparison study of chemical sensor array pattern recognition algorithms, 384 (1999) 305

Shah, R. and Devi, S., Preconcentration and separation of palladium(II) and platinum(IV) on a dithizone anchored poly(vinylpyridine)-based chelating resin, 341 (1997) 217

Shakespeare, J., see Shakespeare, T., 380 (1999) 227

Shakespeare, T. and Shakespeare, J., Problems in colour measurement of fluorescent paper grades, 380 (1999) 227

Shams, E., see Safavi, A., 385 (1999) 265

Shams, E., see Safavi, A., 396 (1999) 215

Shamsipur, M., see Hossein Mashhadizadeh, M., 381 (1999)

Shamsipur, M., see Tavakkoli, N., 360 (1998) 203

Shamsipur, M., see Yamini, Y., 355 (1997) 69

Shan Lin, M., Iuan Jan, B., Leu, H.J. and Shing Lin, J., Trace measurement of dithiocarbamate based pesticide by adsorptive stripping voltammetry, 388 (1999) 111

Shand, C.A., see Anderson, P., 327 (1996) 53

Shangxian, C., see Schulman, S.G., 304 (1995) 165

Shan-Jun, L., Han-Xi, S. and Jian-Xing, F., Effects of gas flow-rates on a Clark-type oxygen gas sensor, 313 (1995) 89

Shanks, F., see Ranville, J.F., 381 (1999) 315

Shannon, C., see Boone, B. Edward, 397 (1999) 43

Shao, M., see Kaljurand, M., 324 (1996) 29

Shaojun, D., see Pengguang, Y., 330 (1996) 167

Shaojun, D., see Qijin, C., 310 (1995) 429

Shaojun, D., see Qing, D., 319 (1996) 71

Shaojun, D., see Yimin, Z., 353 (1997) 45

Shaojun, D., see Zhiming, L., 345 (1997) 147

Shaorong, L. and Dasgupta, P.K., Electroosmotically pumped capillary format sequential injection analysis with a membrane sampling interface for gaseous analytes, 308 (1995) 281

Shaoxiang, X., Jianjun, L. and Jieke, C., Multiwavelength fluorescence detection for purity analysis of fluorescence agents using capillary electrophoresis with a charge-coupled device, 322 (1996) 187

Shapiro, J.S., see Pickup, N.L., 364 (1998) 41

Sharghi, H., see Tavakkoli, N., 360 (1998) 203

Sharkova, V., see Stoytcheva, M., 315 (1995) 101

Sharkova, V., see Stoytcheva, M., 364 (1998) 195

Sharma, J., see Murthy, A.S.N., 363 (1998) 215

Shaw, A.D., di Camillo, A., Vlahov, G., Jones, A., Bianchi, G., Rowland, J. and Kell, D.B., Discrimination of the variety and region of origin of extra virgin olive oils using <sup>13</sup>C NMR and multivariate calibration with variable reduction, 348 (1997) 357

Shaw, S.J., see Adeloju, S.B., 323 (1996) 107

Shaw, S.J., see Adeloju, S.B., 341 (1997) 155

Shcherbinina, N.I., see Garboś, S., 342 (1997) 167

Shchyogolev, S.Y., see Ignatov, O.V., 347 (1997) 241

Shearer, G., see Tarbin, J.A., 318 (1995) 95

Shekhovtsova, T.N., see Veselova, I.A., 392 (1999) 151

Shekhovtsova, T.N., Muginova, S.V. and Bagirova, N.A., Determination of organomercury compounds using immobilized peroxidase, 344 (1997) 145

Shelly, D.C., see Abbas, A.A., 397 (1999) 191

Shen K., Y., Tian Jian, Y. and Quan-Long, P., Reactions of temazepam in acidic aqueous solution via oxygen-18-labeled product analysis by mass spectrometry, 309 (1995) 307

Shen, G., see Liu, W., 383 (1999) 299

Shen, G.L., see Chu, X., 373 (1998) 29

Shen, G.L., see Kang, T.F., 354 (1997) 343

Shen, G.L., see Kang, T.F., 356 (1997) 245

Shen, G.L., see Li, Z.Q., 382 (1999) 165

Shen, G.-L., see Liu, D., 338 (1997) 209

Shen, G.L., see Wu, Z.Y., 398 (1999) 57 Shen, G.-L., see Xia, C., 336 (1996) 185

Shen, H., Cardwell, T.J. and Cattrall, R.W., Determination of ammonia in wastewaters containing high concentrations of surfactants by flow injection potentiometry with on-line sample clean-up, 367 (1998) 193

Shen, H., see Ali, A., 369 (1998) 215

Shen, H., see Ali, A., 392 (1999) 283

Shen, H., see Zhu, M., 357 (1997) 261

Shen, H.L., see Chen, Z.P., 381 (1999) 233

Shen, H.X., see Guo, Z.X., 379 (1999) 45

Shen, H.X., see Guo, Z.X., 379 (1999) 63

Shen, H.X., see Guo, Z.X., 396 (1999) 83 Shen, H.X., see Li, R., 363 (1998) 295

Shen, H.-X., see Min, Z., 349 (1997) 165

Shen, W.D., see Zhang, Y.Q., 369 (1998) 123

Shen, X., see Fan, J., 364 (1998) 275

Shen, Y.T., see Cheng, Z.H., 345 (1997) 235

Shen, Y.T., see Chun, Q.M., 333 (1996) 83

Shen, Y.T., see Chun, Q.M., 338 (1997) 255

Sheng, H.-J. and Shih, J.-S., Detection of olefin vapours with silver(I)/cryptand-coated piezoelectric crystal sensors, 350 (1997) 109

Shenghui, L., Jiannong, Y., Pingang, H. and Yuzhi, F., Voltammetric determination of sequence-specific DNA by electroactive intercalator on graphite electrode, 335 (1996) 239

Shenhar, A., see Filanovsky, B., 364 (1998) 181

Shenhar, A., see Kuselman, I., 306 (1995) 301

Shenhar, A., see Kuselman, I., 300 (1995) 301

Shenyang, T., see Wei, Z., 316 (1995) 387

Sherwood, J.E., see Turoczy, N.J., 354 (1997) 15

Shevtsov, N.I., see Belikov, K.N., 383 (1999) 277

Shi, G., Lu, J., Xu, F., Sun, W., Jin, L., Yamamoto, K., Tao, S. and Jin, J., Determination of glutathione in vivo by microdialysis using liquid chromatography with a cobalt hexacyanoferrate chemically modified electrode, 391 (1999) 307

Shi, G., see Jin, W., 382 (1999) 33

Shi, G., Xu, F., Zhou, H., Mao, L. and Jin, L., Flow-injection analysis-electrochemical detection for the determination of drug-protein interactions with microdialysis sampling, 386 (1999) 123

Shi, O., Yong, H.C. and Yan, X., Enhancing the performance of membrane introduction mass spectrometry by organic carrier and liquid chromatographic separation, 337 (1997) 165

Shi, R., see Stein, K., 336 (1996) 113

Shi, W., see Ramanathan, S., 369 (1998) 189

Shi, Y. and Crouch, S.R., Micro-scale determination of glucose by capillary flow injection with an immobilized enzyme reactor, 381 (1999) 165

Shi, Y. and Pardue, H.L., Improved ruggedness for flow-based kinetic methods of analysis, 360 (1998) 77

Shibata, Y., see Chatterjee, A., 398 (1999) 273

Shibutani, Y., Sakamoto, H., Hayano, K. and Shono, T., Synthesis and cation-extraction study of chromogenic 14-crown-4 derivatives for spectrophotometric determination of lithium, 375 (1998) 81

Shichi, Y., see Hisamoto, H., 396 (1999) 131

Shiell, B.J., see Michalski, W.P., 383 (1999) 27

Shih, J.S., see Chang, P., 360 (1998) 61

Shih, J.S., see Chang, P., 380 (1999) 55

Shih, J.S., see Chao, Y.C., 374 (1998) 39

Shih, J.S., see Chiou, C.S., 360 (1998) 69

Shih, J.S., see Chiou, C.S., 392 (1999) 125

Shih, J.-S., see Lu, C.-J., 306 (1995) 129

Shih, J.-S., see Sheng, H.-J., 350 (1997) 109

Shih, W.C., see Lin, M.S., 381 (1999) 183

Shih, Y., see Zen, J.M., 369 (1998) 103

Shih, Y.T. and Huang, H.J., A creatinine deiminase modified polyaniline electrode for creatinine analysis, 392 (1999) 143

Shihui, S., see Yuanjin, X., 312 (1995) 9

Shikata, Y., Kuwada, M., Hayashi, Y., Hashimoto, A., Koide, A. and Asakawa, N., Intelligent peptide-mapping method for recombinant human tissue-type plasminogen activator by lysyl-endopeptidase digestion, 365 (1998) 241

Shimada, K., see Higashi, T., 365 (1998) 151

Shi-Min, Z., see Tian-Yi, Z., 309 (1995) 111

Shimizu, Y., see Matsuzawa, S., 312 (1995) 165

Shimohigoshi, M., Yokoyama, K. and Karube, I., Development of a bio-thermochip and its application for the detection of glucose in urine, 303 (1995) 295

Shimomura, M., see Ikebukuro, K., 329 (1996) 111

Shimozawa, J.T., see Fujikura, T., 351 (1997) 387

Shin, M.C., see Lee, K.S., 380 (1999) 17

Shin, M.C., see Park, J.K., 390 (1999) 83

Shing Lin, J., see Shan Lin, M., 388 (1999) 111

Shinohara, T., see Ohto, K., 341 (1997) 275

Shinohara, Y., see Akira, K., 334 (1996) 67

Shinotsuka, K. and Ebihara, M., Precise determination of rare earth elements, thorium and uranium in chondritic meteorites by inductively coupled plasma mass spectrometry – a comparative study with radiochemical neutron activation analysis, 338 (1997) 237

Shinwon, K., see Kyungho, K., 343 (1997) 199

Shioda, S., see Ito, K., 382 (1999) 245

Shippy, S.A., Jankowski, J.A. and Sweedler, J.V., Analysis of trace level peptides using capillary electrophoresis with UV laserinduced fluorescence, 307 (1995) 163

Shirai, O., see Yoshida, Y., 373 (1998) 213

Shiraishi, H., see Wang, J., 326 (1996) 141

Shiraishi, H., see Wang, J., 332 (1996) 139

Shiraishi, H., see Wang, J., 337 (1997) 41

Shiraishi, H., see Wang, J., 347 (1997) 1

Shiraishi, H., see Xiaohua, C., 332 (1996) 49

Shirashi, H., see Cai, X., 344 (1997) 65

Shiratsuchi, K., see Ohto, K., 341 (1997) 275

Shires, G.T., see Simoni, J., 313 (1995) 1

Shiro, H., see Kitamura, K., 304 (1995) 101

Shirshov, Y., see Starodub, N.F., 385 (1999) 461

Shirt, R., Garland, M. and Rippin, D.W., On the evaluation of turnover frequencies in unicyclic homogeneous catalysis. Experimental, numerical, and statistical aspects, 374 (1998) 67

Shishan, Z. and Luong, J.H.T., An electrocatalytic approach for the measurement of chlorophenols, 327 (1996) 235

Shishido, T., see Kawakami, M., 362 (1998) 177

Shishkanova, T.V., see Volf, R., 381 (1999) 197

Shiuh-Jen, J., see Hueih-Jen, Y., 312 (1995) 141

Shizuki, T., see Karatani, H., 337 (1997) 207
Shkinev, V.M., Fedorova, O.M., Spivakov, B.Y., Mattusch, J., Wennrich, R. and Lohse, M., Speciation of metals associated with natural water components by on-line membrane fractionation combined with inductively coupled plasma atomic emission and mass spectrometries, 327 (1996) 167

Shoff, D.B., see Eiceman, G.A., 306 (1995) 21

Shono, T., see Shibutani, Y., 375 (1998) 81

Shouan, D. and Yang, X., Spectrophotometric and coulometric titration investigations of oxidation states and forms of ruthenium(IV) in hydrochloric acid solutions, 345 (1997) 243

Shoulian, J., see Lu, J., 349 (1997) 17

Shouzhuo, Y., see Dezhong, L., 313 (1995) 229

Shouzhuo, Y., see Dezhong, L., 320 (1996) 245

Shouzhuo, Y., see Huwei, T., 353 (1997) 29

Shouzhuo, Y., see Kang, C., 329 (1996) 83

Shouzhuo, Y., see Lili, B., 319 (1996) 97

Shouzhuo, Y., see Yuanjin, X., 312 (1995) 9

Shouzhuo, Y., see Yuanjin, X., 325 (1996) 65

Shoyama, Y., see Yanagihara, H., 335 (1996) 63 Shpigun, O.A., see Pirogov, A.V., 369 (1998) 47

Shriver-Lake, L.C., see Bakaltcheva, I.B., 399 (1999) 13

Shu-Chuan, L., see Hui-Min, M., 334 (1996) 213

Shuenn-Jyi, S. and Hong-Ren, C., Determination of five major anthraquinoids in Chinese herbal preparations by micellar electrokinetic capillary electrophoresis, 309 (1995) 361

Shuenn-Jyi, S., see Kwei-Lan, L., 313 (1995) 113

Shufang, W., see Bo, H., 312 (1995) 329

Shukun, X., see Zhaolun, F., 326 (1996) 49

Shul'ga, A.A., see Dzyadevich, S.V., 374 (1998) 11

Shul'ga, A.A., see Netchiporouk, L.I., 303 (1995) 275

Shul'ga, A.A., see Volotovsky, V., 322 (1996) 77

Shultz, T.J., Adams, H.M. and Green, L.W., Vacuum fusion-mass spectrometric determination of H, N and O in U<sub>3</sub>Si fuel using the standard addition technique, 316 (1995) 337

Shuna, L., see Zhujun, Z., 318 (1995) 71

Shun-an, C., Jin-chang, Z., Hasebe, K. and Wenzhi, H., On-line monitoring of trace amounts of copper(II) in steam condensate and boiler feed-water by flow injection analysis based on its catalytic effect on the oxidation of hydroquinone by hydrogen peroxide, 331 (1996) 257

Shun-an, C., see Wenzhi, H., 322 (1996) 43

Shuping, B., A simple model for predicting the pH values of acidic natural waters, 314 (1995) 111

Shuttler, I.L., see Dongxing, Y., 316 (1995) 313

Shu-Xiu, Z., Murachi, S., Imasaka, T. and Watanabe, M., Determination of rare earth impurities in ultrapure europium oxide by inductively-coupled plasma mass spectrometry, 314 (1995) 193

Sicilia, D., Rubio, S., Pérez-Bendito, D., Maniasso, N. and Zagatto, E.A.G., Anionic surfactants in acid media: a new cloud point extraction approach for the determination of polycyclic aromatic hydrocarbons in environmental samples, 392 (1999) 29

Sicilia, D., see Borrego, E., 362 (1998) 285

Sicilia, D., see Borrego, E., 384 (1999) 105

Sicilia, D., see Borrego, E., 384 (1999) 175

Sicilia, D., see Casero, I., 345 (1997) 75

Sicilia, D., see Morales, F., 345 (1997) 87

Siebert, E., see Bartroli, J., 308 (1995) 102

Siebert, S.T.A., Reeves, S.G., Roberts, M.A. and Durst, R.A., Improved liposome immunomigration strip assay for alachlor determination, 311 (1995) 309

Siebold, M., see Jürgens, H., 302 (1995) 289

Siegfried, L., see Jarzębińska, A., 396 (1999) 1

Siems, W.F., see Yong, H.C., 334 (1996) 75

Siepak, J., see Barałkiewicz, D., 353 (1997) 85

Sierra, J.F., Galban, J., de Marcos, S. and Castillo, J.R., Fluorimetric-enzymatic determination of glucose based on labelled glucose oxidase, 368 (1998) 97

Sig Cha, G., see Jun Yoon, I., 367 (1998) 175

Sig Cha, G., see Poplawski, M.E., 355 (1997) 249

Sigg, L., see Xue, H., 363 (1998) 249

Sigman, M.E., see Schutt, W.S., 319 (1996) 369

Sihvonen, M.-L., see Sillanpää, M., 303 (1995) 187

Šikovec, M., Franko, M., Cruz, F.G. and Katz, S.A., Thermal lens spectrometric determination of hexavalent chromium, 330 (1996) 245

Šikurová, L., Čunderlíková, B., Turisová, J. and Waczulíková, I., Interaction of merocyanine 540 with cations of physiological solutions, 303 (1995) 79

Silber, J.J., see Giacomelli, L., 370 (1998) 79

Silber, J.J., see Reta, M.R., 306 (1995) 81

Sillanpää, M., Kokkonen, R. and Sihvonen, M.-L., Determination of EDTA and DTPA as their Fe(III) complexes in pulp and paper mill process and waste waters by liquid chromatography, 303 (1995) 187

Silva, C.S.P.C.O., see da Silva, J.C.G.E., 318 (1996) 365

Silva, E.C., Araújo, M.C.U., Honorato, R.S., Lima, J.L.F.C., Zagatto, E.A.G. and Brienza, S.M.B., Standard additions in flow injection analysis based on merging zones and gradient exploitation: application to copper determination in spirits, 319 (1996) 153

Silva, F.V., Nogueira, A.R.A., Souza, G.B. and Zagatto, E.A.G., A polyvalent flow injection system for multielemental spectrophotometric analysis of plant materials, 370 (1998) 39

Silva, M., see Cepas, J., 314 (1995) 87

Silva, M., see Cobo, M., 356 (1997) 51

Silva, M., see Gaikwad, A., 302 (1995) 275

Silva, M., see Jiménez-Prieto, R., 321 (1996) 53

Silva, M., see Jiménez-Prieto, R., 334 (1996) 323

Silva, M., see Jiménez-Prieto, R., 389 (1999) 131

Silva, M.F., Fernandez, L., Olsina, R.A. and Stacchiola, D., Cloud point extraction, preconcentration and spectrophotometric determination of erbium(III)-2-(3,5-dichloro-2-pyridylazo)-5-dimethylaminophenol, 342 (1997) 229

Silva, M.M., Arruda, M.A., Krug, F.J., Oliveira, P.V., Queiroz, Z.F., Gallego, M. and Valcárcel, M., On-line separation and preconcentration of cadmium, lead and nickel in a fullerene (C<sub>60</sub>) minicolumn coupled to flow injection tungsten coil atomic absorption spectrometry, 368 (1998) 255

Silva, P.R.M., El Khakani, M.A., Chaker, M., Champagne, G.Y., Chevalet, J., Gastonguay, L., Lacasse, R. and Ladouceur, M., Development of Hg-electroplated-iridium based microelectrode arrays for heavy metal traces analysis, 385 (1999) 249

Simeonova, P., see Nedeltcheva, T., 312 (1995) 227

Simeonova, P., see Nedeltcheva, T., 336 (1996) 223

Simeonsson, J.B., Elwood, S.A., Niebes, M., Carter, R. and Peck, A., Trace detection of NO and NO<sub>2</sub> by photoionization and laser induced fluorescence techniques, 397 (1999) 33

Simić, Z., see Mihajlović, R., 318 (1996) 287

Simmons, B.R., Lush, R.M. and Figg, W.D., A reversed-phase high performance liquid chromatography method using solid phase extraction to quantitate thalidomide in human serum, 339 (1997) 91

Simó-Alfonso, E.F., see Carda-Broch, S., 353 (1997) 215

Simões Gonçalves, M.L.S., see Ezequiel Rollemberg, M.C., 384 (1999) 17

Simões Gonçalves, M.L.S., see Ezequiel Rollemberg, M.C., 392 (1999) 349

Simon, D., Helliwell, S. and Robards, K., Analytical chemistry of chlorpyrifos and diuron in aquatic ecosystems, 360 (1998) 1

Simon, F.T., Serial filter method for fluorescence evaluation, 380 (1999) 417

Simonet, B.M., see March, J.G., 367 (1998) 63

Simonetti, G., see Mazzei, F., 316 (1995) 79

Simonetto, F., see Daniele, S., 331 (1996) 117

Simoni, G., see Simoni, J., 313 (1995) 1

Simoni, J., Simoni, G., Lox, C.D., Prien, S.D. and Shires, G.T., Hemoglobin interference with an enzyme-linked immunosorbent assay for the detection of tumor necrosis factor-alpha, 313 (1995)

Simonian, A.L., diSioudi, B.D. and Wild, J.R., An enzyme based biosensor for the direct determination of diisopropyl fluorophosphate, 389 (1999) 189

Simpson, S.L., Powell, K.J. and Nilsson, N.H.S., Flow injection determination of Al<sup>3+</sup> and Al<sub>13</sub>O<sub>4</sub>(OH)<sub>24</sub>(H<sub>2</sub>O)<sup>7+</sup><sub>12</sub> species using a 1.3-s reaction with 8-quinolinol-derivatised Fractogel, 343 (1997) 19

Simpson, S.L., Powell, K.J., Nilsson, N.H. and Sjöberg, S., Kinetic and thermodynamic considerations in the determination of aluminium using pyrocatechol violet: implications for the use of 'kinetic-based' determinations of metal ions in natural systems, 359 (1998) 329

Simpson, S.L., see Downard, A.J., 345 (1997) 5

Simpson, S.L., see Hawke, D.J., 319 (1996) 305

Singh, A.K., see Saxena, R., 340 (1997) 285

Singh, L.P., see Gupta, V.K., 355 (1997) 33

Singh, L.P., see Gupta, V.K., 379 (1999) 201

Singh, S.B., see Tsipouras, A., 316 (1995) 161

Sinn, G., see Mittenzwey, K.-H., 330 (1996) 183

Siontorou, C.G. and P. Nikolelis, D., Cyanide ion minisensor based on methemoglobin incorporated in metal supported selfassembled bilayer lipid membranes and modified with platelet-activating factor, 355 (1997) 227

Siow, K.S., see Gao, Z., 320 (1996) 229

Siow, K.-S., see He, H.-B., 309 (1995) 73

Sirinawin, W. and Westerlund, S., Analysis and storage of samples for chromium determination in seawater, 356 (1997) 35

Široki, M., see Marić, L., 318 (1996) 345

Šišák, M., Fránek, M. and Hruška, K., Application of radioimmunoassay in the screening of polychlorinated biphenyls in cow's milk, 311 (1995) 415

Siskos, P.A., see Spyridaki, M.-H.E., 327 (1996) 277

Siswanta, D., see Hisamoto, H., 304 (1995) 171

Siswanta, D., see Hisamoto, H., 373 (1998) 271

Siswanta, D., see Hisamoto, H., 396 (1999) 131

Situmorang, M., Gooding, J. Justin and Hibbert, D. Brynn, Immobilisation of enzyme throughout a polytyramine matrix: a versatile procedure for fabricating biosensors, 394 (1999) 211

Sixuan, G., see Soo, B.K., 351 (1997) 133

Sjöback, R., see Kubista, M., 302 (1995) 121

Sjöberg, P., see Lindfors, T., 385 (1999) 163

Sjöberg, S., see Simpson, S.L., 359 (1998) 329

Sjögren, A. and Dasgupta, P.K., A planar microelectrodialytic NaOH generator for eluite conversion after suppressed conductometric detection in ion chromatography, 384 (1999) 135

Sjögren, A., see Pontén, E., 320 (1996) 87

Sjöström, M., see Faber, N.M., 304 (1995) 257

Sjöström, M., see Faber, N.M., 304 (1995) 273

Skarping, G., see Lind, P., 333 (1996) 277

Skinner, N., see Fiaccabrino, G.C., 326 (1996) 155

Skládal, P. and Kaláb, T., A multichannel immunochemical sensor for determination of 2,4-dichlorophenoxyacetic acid, 316 (1995) 73

Skládal, P., Deng, A. and Kolář, V., Resonant mirror-based optical immunosensor: application for the measurement of atrazine in soil, 399 (1999) 29

Skládal, P., see Horáček, J., 347 (1997) 43

Skládal, P., see Kaláb, T., 304 (1995) 361

Skladal, P., see Kalab, 1., 304 (1995) 361 Skladal, P., see Nunes, G.S., 362 (1998) 59

Skodje, R.T., see Roark, S.E., 307 (1995) 341

Skopalová, J., see Kotouček, M., 353 (1997) 61

Skotheim, T., see Boguslavsky, L., 311 (1995) 15

Skotheim, T., see Laurinavicius, V., 330 (1996) 159

Škrabáková, S., see Matisová, E., 309 (1995) 181

Skryshevsky, V.A., see Polishchuk, V., 375 (1998) 205

Skvortsov, N.K., see Rigin, V.I., 340 (1997) 1

Šlejkovec, Z., van Elteren, J.T. and Byrne, A.R., A dual arsenic speciation system combining liquid chromatographic and purge and trap-gas chromatographic separation with atomic fluorescence spectrometric detection, 358 (1998) 51

Šlejkovec, Z., van Elteren, J.T., Byrne, A.R. and de Goeij, J.J., Separation of radiolabelled arsenic compounds produced by neutron irradiation of organoarsenic compounds, 380 (1999) 63

Slevin, C.J., see Barker, A.L., 385 (1999) 223

Slimestad, R., Gjelsvik, S. and Grahl-Nielsen, O., Detection of effects of ozone on birch, Betula pendula Roth., by chemometrical evaluation of concentrations of lipid components in leaves, 304 (1995) 209

Slinchenko, E.A., see Sergeyeva, T.A., 392 (1999) 105

Sloan, J.T., see Land, D.P., 307 (1995) 321

Sluszny, C., Bulatov, V. and Schechter, I., Classification and quantification of polycyclic aromatic hydrocarbons on quartz sand particles by direct Fourier transform imaging fluorescence, 367 (1998) 1

Small, G.W., see Ding, Q., 384 (1999) 333

Small, G.W., see Hazen, K.H., 371 (1998) 255

Small, G.W., see Shaffer, R.E., 331 (1996) 157

Smaragdis, E., see Statheropoulos, M., 331 (1996) 53

Smart, N.G., see Brauer, R.D., 349 (1997) 239

Smart, N.G., see Özel, M.Z., 346 (1997) 73

Smart, R.B., see Hong, L., 325 (1996) 25

Smart, R.B., see Hong, L., 333 (1996) 131

Smeyers-Verbeke, J., see Hartmann, C., 338 (1997) 19

Smeyers-Verbeke, J., see Hartmann, C., 344 (1997) 17

Smeyers-Verbeke, J., see Kuttatharmmakul, S., 391 (1999) 203

Smichowski, P. and Marrero, J., Comparative study to evaluate the effect of different acids on the determination of germanium by hydride generation-inductively coupled plasma atomic emission spectrometry, 376 (1998) 283

Smiderle, M., Reis, B.F. and Rocha, F.R., Monosegmented flow system exploiting multicommutation applied to spectrophotometric determination of manganese in soybean digests, 386 (1999) 129

Smilde, A.K., see Bijlsma, S., 376 (1998) 339

Smilde, A.K., see Bijlsma, S., 396 (1999) 231

Smilde, A.K., see Steijger, O.M., 320 (1996) 99

Smilde, A.K., Tauler, R., Saurina, J. and Bro, R., Calibration methods for complex second-order data, 398 (1999) 237

Smirnov, S., see Pasquini, C., 319 (1996) 315

Smirnova, A., see Legin, A., 385 (1999) 131

Smirnova, A.L., see Schwake, A., 393 (1999) 19

Smit, H.C., see Kaljurand, M., 373 (1998) 175

Smit, H.C., see Kilg, R., 333 (1996) 3

Smit, H.C., see Kilg, R., 333 (1996) 11

Smit, H.C., see Louwerse, D.J., 346 (1997) 285

Smith, A.M., see Ducey Jr., M.W., 357 (1997) 5

Smith, B., see Barnett, N.W., 318 (1996) 309

Smith, B.W., see Aucélio, R.Q., 350 (1997) 231

Smith, B.W., see Baker, S.A., 355 (1997) 113

Smith, B.W., see Escobar, M.P., 320 (1996) 11

Smith, B.W., see Riter, K.L., 333 (1996) 187

Smith, D.Scott and Kramer, J.R., Multi-site aluminum speciation with natural organic matter using multiresponse fluorescence data, 363 (1998) 21

Smith, J.D., see Tinker, R.A., 332 (1996) 291

Smith, J.D., see Towler, P.H., 328 (1996) 53

Smith, L.L., see Aldstadt, J.H., 319 (1996) 135

Smith, L.L., see Neal, T.J., 322 (1996) 11

Smith, M.V., see Travis, J.C., 380 (1999) 115

Smith, T.D., see Bond, A.M., 396 (1999) 203

Smolander, M., Marko-Varga, G. and Gorton, L., Aldose dehydrogenase-modified carbon paste electrodes as amperometric aldose sensors, 302 (1995) 233

Smyth, M.R., see Adeyoju, O., 305 (1995) 57

Smyth, M.R., see Bin, L., 331 (1996) 97

Smyth, M.R., see Bin, L., 340 (1997) 175

Smyth, M.R., see Bin, L., 345 (1997) 59

Smyth, M.R., see Deasy, B., 310 (1995) 101

Smyth, M.R., see Dempsey, E., 346 (1997) 341 Smyth, M.R., see Fang, T., 305 (1995) 347

Smyth, M.R., see Killard, A.J., 400 (1999) 109

Smyth, M.R., see Pravda, M., 304 (1995) 127

Smyth, P.M.T., see Burns, D.T., 322 (1996) 107 Smyth, W.F., see Farry, L., 349 (1997) 221

Smyth, W.F., see McGrath, G.J., 322 (1996) 159

Smyth, W.F., see Oxspring, D.A., 317 (1995) 295

Smyth, W.F., see Oxspring, D.A., 323 (1996) 97 Snook, R.D., see Colcombe, S.M., 356 (1997) 277

Snook, R.D., see Colcombe, S.M., 390 (1999) 155

Snyder, A.P., Maswadeh, W.M., Eiceman, G.A., Yuan-Feng, W. and Bell, S.E., Multivariate statistical analysis characterization of application-based ion mobility spectra, 316 (1995) 1

Soares, H.M., Conde, P.C., Almeida, A.A. and Vasconcelos, M.T.S.D., Evaluation of n-substituted aminosulfonic acid pH buffers with a morpholinic ring for cadmium and lead speciation studies by electroanalytical techniques, 394 (1999) 325

Soares, H.M.V.M. and Vasconcelos, M.T.S.D., Potentiometric stripping analysis vs. differential pulse anodic stripping voltammetry for copper(II) analysis at relatively positive deposition potential, 303 (1995) 255

Soares, H.M.V.M. and Vasconcelos, M.T.S.D., Application of potentiometric stripping analysis for speciation of copper complexes with adsorbable ligands on the mercury electrode, 314 (1995)

Soares, H.M.V.M., see Vasconcelos, M.T., 330 (1996) 273

Sobral, S., see Dall'Orto, V.C., 336 (1996) 195

Soga, N., see Karatani, H., 337 (1997) 207

Soggia, F., see Baffi, F., 306 (1995) 149

Soggia, F., see Baffi, F., 360 (1998) 27

Sohrin, Y., Iwamoto, S.i., Akiyama, S., Fujita, T., Kugii, T., Obata, H., Nakayama, E., Goda, S., Fujishima, Y., Hasegawa, H., Ueda, K. and Matsui, M., Determination of trace elements in seawater by fluorinated metal alkoxide glass-immobilized 8-hydroxyquinoline concentration and high-resolution inductively coupled plasm, 363 (1998) 11

Sojka, B., Piunno, P.A., Wust, C.C. and Krull, U.J., Evaluating the quality of oligonucleotides that are immobilized on glass supports for biosensor development, 395 (1999) 273

Sokół, A., see Leszczyńska, E., 368 (1998) 205

Sokolov, D.P., see Nagy, V.Y., 339 (1997) 13

Sokolov, D.P., see Nagy, V.Y., 339 (1997) 53

Sokolov, S., see Neikov, A., 307 (1995) 27

Soldatkin, A.P., see Dzyadevich, S.V., 374 (1998) 11

Soldatkin, A.P., see Gorchkov, D.V., 331 (1996) 217

Soldatkin, A.P., see Jdanova, A.S., 321 (1996) 35

Soldatkin, A.P., see Sergeyeva, T.A., 390 (1999) 73

Soldatkin, A.P., see Volotovsky, V., 322 (1996) 77

Soldi, T., Pesavento, M. and Alberti, G., Separation of vanadium(V) and -(IV) by sorption on an iminodiacetic chelating resin, 323 (1996) 27

Solich, P., Polášek, M. and Karlíček, R., Sequential flow-injection spectrofluorimetric determination of coumarins using a doubleinjection single-line system, 308 (1995) 293

Soma, M., see Tani, Y., 395 (1999) 53

Somasundrum, M., Kirtikara, K. and Tanticharoen, M., Amperometric determination of hydrogen peroxide by direct and catalytic reduction at a copper electrode, 319 (1996) 59

Somberg, H., see Elyashberg, M.E., 337 (1997) 265

Somberg, H., see Elyashberg, M.E., 348 (1997) 443

Somogyi, A., see Gu, C., 397 (1999) 247

Somsen, G.W., Coulter, S.K., Gooijer, C., Velthorst, N.H. and Brinkman, U.A.T., Coupling of column liquid chromatography and surface-enhanced resonance Raman spectroscopy via a thinlayer chromatographic plate, 349 (1997) 189

Somsen, G.W., see Visser, T., 342 (1997) 151

Sone, T., see Abe, S., 319 (1996) 387

Song, G., see Yang, R., 314 (1995) 95

Song, L., see Fu, C., 371 (1998) 81

Song, L., see Fu, C., 399 (1999) 259

Song, W., Chen, X., Jiang, Y., Liu, Y., Sun, C. and Wang, X., Fabrication of a chemically modified electrode containing 12molybdophosphoric acid by the sol-gel technique and its application as an amperometric detector for iodate, 394 (1999) 73

Song, X.-H., see Hopke, P.K., 348 (1997) 375 Song, Y. and Lunte, C.E., Comparison of calibration by delivery versus no net flux for quantitative in vivo microdialysis sampling,

379 (1999) 251

Song, Y. and Lunte, C.E., Calibration methods for microdialysis sampling in vivo: muscle and adipose tissue, 400 (1999) 143

Song, Z., see Jie, N., 359 (1998) 87

Soni, M.H., Wong, P.S.H. and Cooks, R.G., Notched broad-band excitation of ions in a bench-top ion trap mass spectrometer, 303

Sonoki, S., Lin, J. and Hisamatsu, S., Liquid chromatographic determination of 5-methylcytosine in DNA with fluorescence detection, 365 (1998) 213

Sontag, G., see Neumayr, M., 305 (1995) 26

Soo, B.K., see Yu, L.H., 317 (1995) 223

Soo, B.K., Yap, M.G.S., Yu, L.H. and Sixuan, G., Electrocatalytic oxidation of H2O2 at an oxycobalt film modified glassy carbon electrode for fermentation monitoring, 351 (1997) 133

Sooksamiti, P., see Grudpan, K., 314 (1995) 51

Sorsa, H., see Ketola, R.A., 349 (1997) 359

Sosa Ferrera, Z., see Eiguren Fernández, A., 358 (1998) 145

Sosnitza, P., Farooqui, M., Saleemuddin, M., Ulber, R. and Scheper, T., Application of reversible immobilization techniques for biosensors, 368 (1998) 197

Sosnitza, P., see Scheper, T., 400 (1999) 121

Sotiropoulos, S. and Wallgren, K., Solid-state microelectrode oxygen sensors, 388 (1999) 51

Sotiropoulos, S., see Pletcher, D., 322 (1996) 83

Sotomayor, M.D.P.T., De Paoli, M.-A. and de Oliveira, W.A., Fiber-optic pH sensor based on Poly(o-methoxyaniline), 353 (1997) 275

Soukhomlinov, B.P., see Eksperiandova, L.P., 396 (1999) 317

Souteyrand, E., see Polishchuk, V., 375 (1998) 205

Southard, G.L., see Bae, S.Y., 397 (1999) 173

Southwell-Keely, P., see Oungpipat, W., 309 (1995) 35

Souto, M. Renata S., see Lima, J.L., 356 (1997) 259

Souza, G.B., see Silva, F.V., 370 (1998) 39

Souza, S.R., see Carvalho, L.R.F., 317 (1995) 171

Soylak, M., Sahin, U. and Elci, L., Spectrophotometric determination of molybdenum in steel samples utilizing selective sorbent extraction on Amberlite XAD-8 resin, 322 (1996) 111

Sozinov, A.A., see Piletskaya, E.V., 391 (1999) 1

Sozinov, A.A., see Piletskaya, E.V., 398 (1999) 49

Spahiu, K., see Baraj, B., 319 (1996) 191

Spalding, R.F., see Cai, Z., 304 (1995) 67

Spalding, R.F., see Monson, S.J., 373 (1998) 153

Spangler, B.D. and Tyler, B.J., Capture agents for a quartz crystal microbalance-continuous flow biosensor: functionalized selfassembled monolayers on gold, 399 (1999) 51

Sparén, A., see Danielsson, L.-G., 306 (1995) 173

Spates, J.J., see Schneider, T.W., 309 (1995) 53

Spear, S.K., Patterson, S.L. and Arnold, M.A., Flow-through fiberoptic ammonia sensor for analysis of hippocampus slice perfusates, 357 (1997) 79

Spence, D.M. and Crouch, S.R., An investigation of internal pressures in capillary flow injection systems, 358 (1998) 95

Spence, D.M. and Crouch, S.R., Capillary flow injection: Performance under pressure, 366 (1998) 305

Spichiger, U.E., see Demuth, C., 355 (1997) 259

Spichiger, U.E., see Zhang, W., 375 (1998) 211

Spichiger-Keller, U.E., Ionophores, ligands and reactands, 400

Spichiger-Keller, U.E., see Mohr, G.J., 344 (1997) 215

Spichiger-Keller, U.E., see Mohr, G.J., 351 (1997) 189

Spiegelman, C.H., see McShane, M.J., 388 (1999) 251

Spitzenberger, F., see van Putten, A.B., 317 (1995) 247

Spivakov, B.Y., see Kolytcheva, N.V., 357 (1997) 231

Spivakov, B.Y., see Shkinev, V.M., 327 (1996) 167

Spohn, U., Narasaiah, D., Gorton, L. and Pfeiffer, D., A bienzyme modified carbon paste electrode for the amperometric detection of L-lactate at low potentials, 319 (1996) 79

Spohn, U., Preuschoff, F., Blankenstein, G., Janasek, D., Kula, M.R. and Hacker, A., Chemiluminometric enzyme sensors for flowinjection analysis, 303 (1995) 109

Spohn, U., see Becker, M., 324 (1996) 115

Spohn, U., see Bergmann, W., 394 (1999) 233

Spohn, U., see Mana, H., 325 (1996) 93

Springsteen, A., Introduction to measurement of color of fluorescent materials, 380 (1999) 183

Springsteen, A., Standards for the measurement of diffuse reflectance – an overview of available materials and measurement laboratories, 380 (1999) 379

Springsteen, A., Yurek, R., Frazier, M. and Carr, K.F., In vitro measurement of sun protection factor of sunscreens by diffuse transmittance, 380 (1999) 155

Sprinkle, R.H., see Marzouk, S.A., 363 (1998) 57

Sprinkle, R.H., see Nagy, G., 377 (1998) 1

Sprules, S.D., Hart, J.P., Wring, S.A. and Pittson, R., A reagentless, disposable biosensor for lactic acid based on a screen-printed carbon electrode containing Meldola's Blue and coated with lactate dehydrogenase, NAD\* and cellulose acetate, 304 (1995) 17

Sprules, S.D., Hartley, I.C., Wedge, R., Hart, J.P. and Pittson, R., A disposable reagentless screen-printed amperometric biosensor for the measurement of alcohol in beverages, 329 (1996) 215

Spurlock, L.D., Jaramillo, A., Praserthdam, A., Lewis, J. and Brajter-Toth, A., Selectivity and sensitivity of ultrathin purinetemplated overoxidized polypyrrole film electrodes, 336 (1996) 37

Spyridaki, M.-H.E. and Siskos, P.A., An improved spectrophotometric method for the determination of free, bound and total N-acetylneuraminic acid in biological fluids, 327 (1996) 277

Sørensen, G., see Jørgensen, S.S., 322 (1996) 69

Srinivasan, N., Johnson, R.C., Kasthurikrishnan, N., Wong, P. and Cooks, R.G., Membrane introduction mass spectrometry, 350 (1997) 257

Srinivasan, N., Kasthurikrishnan, N., Cooks, R.G., Krishnan, M.S. and Tsao, G.T., On-line monitoring with feedback control of bioreactors using a high ethanol tolerance yeast by membrane introduction mass spectrometry, 316 (1995) 269

Sritharathikhun, P., see Grudpan, K., 363 (1998) 199

Srithawepoon, S., see Chimpalee, N., 304 (1995) 97

Sritongkum, P., see Surareungchai, W., 380 (1999) 7

Stacchiola, D., see Silva, M.F., 342 (1997) 229

Staden, J.F. van, see Taljaard, R.E., 366 (1998) 177

Stadler, H., see Schuhmann, W., 315 (1995) 113

Stadlober, M., Kalcher, K. and Raber, G., A new method for the voltammetric determination of molybdenum(VI) using carbon paste electrodes modified in situ with cetyltrimethylammonium bromide, 350 (1997) 319

Ståhle, L., see Borg, N., 375 (1998) 135

Ståhle, L., see Borg, N., 379 (1999) 319

Stålbrand, H., see Torto, N., 313 (1995) 15

Stalcup, A.M., see Agyei, N.M., 307 (1995) 185

Stalder, V., Bernard, N., Hanselmann, K.W., Bachofen, R. and Chasteen, T.G., A method of repeated sampling of static headspace above anaerobic bacterial cultures with fluorine-induced chemiluminescence detection, 303 (1995) 91

Stan, H.-J., see Heberer, T., 341 (1997) 21

Standfuß-Gabisch, C., see Krämer, P.M., 399 (1999) 89

Stanescu, S., see Dumitrescu, V., 333 (1996) 181

Stanker, L.H., see Beier, R.C., 376 (1998) 139

Stanley, M.A., see Doherty, A.P., 319 (1996) 111

Stans, G., see De Boever, J., 303 (1995) 143

Stapp, M., see Feely, R.A., 377 (1998) 185

Stärk, E., see Scheper, T., 400 (1999) 121

Starodub, N.F., Kanjuk, N.I., Kukla, A.L. and Shirshov, Y., Multienzymatic electrochemical sensor: field measurements and their optimisation, 385 (1999) 461

Statheropoulos, M., Smaragdis, E., Tzamtzis, N. and Georgakopoulos, C., Principal component analysis for resolving coeluting substances in gas chromatography-mass spectrometry doping control analysis, 331 (1996) 53

Statheropoulos, M.C., see Georgakopoulos, C.G., 359 (1998) 213

Steck, W., see Holcombe, D.G., 393 (1999) 157

Steen, R.J.C.A., Freriks, I.L., Cofino, W.P. and Brinkman, U.A.T., Large-volume injection in gas chromatography-ion trap tandem mass spectrometry for the determination of pesticides in the marine environment at the low ng/l level, 353 (1997) 153

Stefan, R.I., Lauryl sulphate as counter ion for construction of ionselective membrane electrodes for moclobemide and disopyramide, 350 (1997) 105

Štefuca, V., Welwardová, A. and Gemeiner, P., Flow microcalorimeter auto-calibration for the analysis of immobilized enzyme kinetics. 355 (1997) 63

Steijger, O.M., den Nieuwenboer, H.C.M., Lingeman, H., Brinkman, U.A.T., Holthuis, J.J.M. and Smilde, A.K., Enhancement of peroxyoxalate chemiluminescence by copper(II) in flow injection analysis; optimization by factorial design analysis, 320 (1996) 99

Stein, K., see Buck, S., 390 (1999) 141

Stein, K., see Renbing, S., 324 (1996) 21

Stein, K., Shi, R. and Schwedt, G., Determination of L-asparagine using flow-injection systems with spectrophotometric and potentiometric detection, 336 (1996) 113

Steinert, J., Khalaf, H., Keese, W. and Rimpler, M., Sensitive liquid chromatographic determination of hydrophobic primary and secondary amines by derivatization to form highly fluorescent thiazoles, 327 (1996) 153

Steinert, J., see Khalaf, H., 334 (1996) 45

Steinle, E., Faubel, W. and Ache, H.J., Near field thermal lens detector for gradient elution liquid chromatography, 353 (1997) 207

Stenken, J.A., Methods and issues in microdialysis calibration, 379 (1999) 337

Stenstrøm, T., see Carlsson, K., 354 (1997) 35

Stepanova, I.E., see Sakharov, I.Y., 319 (1996) 265

Sterling, J., see Almog, J., 322 (1996) 203

Sterling, J., see Almog, J., 334 (1996) 223

Sterna, C., see Verdú-Andrés, J., 349 (1997) 271

Sterna, C., see Verdú-Andrés, J., 389 (1999) 115

Stetter, J.R., see Penrose, W.R., 313 (1995) 209

Stevenson, C.L. and Vo-Dinh, T., Analysis of polynuclear aromatic compounds using laser-excited synchronous fluorescence, 303 (1995) 247

Stevenson, P., see Burns, D.T., 339 (1997) 259

Stigbrand, M., see Pontén, E., 320 (1996) 87

Stiger, R.M., Virtanen, J.A., Lee, S., Virtanen, S.A. and Penner, R.M., Scanning tunneling microscopic observations of commensurate crystalline structures for horizontally deposited cadmium stearate bilayers on graphite, 307 (1995) 377

Stillman, M.J., see Du, H., 354 (1997) 65

Stillman, M.J., see Du, H., 354 (1997) 77

Stillman, M.J., see Hai, D., 324 (1996) 85

Stivanello, C.M., see Enju, W., 334 (1996) 139

Stobaugh, J.F., see Rose, M.J., 394 (1999) 299

Stöcklein, W., see Wollenberger, U., 329 (1996) 231

Stöcklein, W.F., Warsinke, A., Micheel, B., Kempter, G., Höhne, W. and Scheller, F.W., Diphenylurea hapten sensing with a monoclonal antibody and its Fab fragment: Kinetic and thermodynamic investigations, 362 (1998) 101

Stockwell, P.B., see Louise Armstrong, H.E., 390 (1999) 245

Stojek, Z., see Cakała, M., 379 (1999) 209

Stojek, Z., see Jaworski, A., 305 (1995) 106

Stojek, Z., see Pałys, M.J., 337 (1997) 5

Stojek, Z., see Pałys, M.J., 377 (1998) 29

Stojko, N.Yu., Brainina, K., Faller, C. and Henze, G., Stripping voltammetric determination of mercury at modified solid electrodes. I. Development of the modified electrodes, 371 (1998) 145

Stojko, N.Yu., see Faller, C., 396 (1999) 195

Stokes, D.L., Pal, A., Anantha Narayanan, V. and Vo-Dinh, T., Evaluation of a chemical vapor dosimeter using polymer-coated SERS substrates, 399 (1999) 265

Stokes, D.L., see Pal, T., 368 (1998) 21

Stokes, D.L., Sepaniak, M.J. and Vo-Dinh1, T., Demonstration of a separations-based fiberoptic sensor for bioanalysis, 399 (1999) 201

Stoks, P., see Houben, A., 399 (1999) 69

Stoks, P.G., see Krämer, P.M., 347 (1997) 187

Stoks, P.G., see Meulenberg, E.P., 311 (1995) 407

Stoll, M.H.C., see de Jong, J.T.M., 377 (1998) 113

Stoyanov, S., see Antonov, L., 314 (1995) 225

Stoyanov, S., see Antonov, L., 324 (1996) 77

Stoytcheva, M., Nankov, N. and Sharkova, V., Analytical characterisation and application of a p-benzoquinone mediated amperometric graphite sensor with covalently linked glucoseoxidase, 315 (1995) 101

Stoytcheva, M., Sharkova, V. and Panayotova, M., Electrochemical approach in studying the inhibition of acetylcholinesterase by arsenate(III): analytical characterisation and application for arsenic determination, 364 (1998) 195

Strachan, N.J.C., Nicholson, F.J. and Ogden, I.D., An automated sampling system using ion mobility spectrometry for the rapid detection of bacteria, 313 (1995) 63

Stranick, S.J., see Weiss, P.S., 307 (1995) 355

Štrbac, S., see Rajaković, L.V., 315 (1995) 83

Stred'anský, M., see Katrlík, J., 379 (1999) 193

Streffer, K., Kaatz, H., Bauer, C.G., Makower, A., Schulmeister, T., Scheller, F.W., Peter, M.G. and Wollenberger, U., Application of a sensitive catechol detector for determination of tyrosinase inhibitors, 362 (1998) 81

Strehler, A., see Vierle, O., 393 (1999) 131

Streško, V., see Kubová, J., 337 (1997) 329

Streško, V., see Polakovičová, J., 320 (1996) 145

Strikha, V.I., see Polishchuk, V., 375 (1998) 205

Strikha, V.I., see Volotovsky, V., 322 (1996) 77

Striley, C.A.F., Biagini, R.E., Mastin, J.P., MacKenzie, B.A. and Robertson, S.K., Development and validation of an ELISA for metolachlor mercapturate in urine, 399 (1999) 109

Striley, C.A.F., see Mastin, J.P., 376 (1998) 119

Strojek, J.W., see Granger, M.C., 397 (1999) 145

Strompen, C., see Günther, K., 309 (1995) 327

Strong, R., see Liu, H., 400 (1999) 181

Stulik, D., see Schulz, H., 316 (1995) 145

Štulík, K., Pacáková, V., Suchánková, J. and Claessens, H.A., Stationary phases for peptide analysis by high performance liquid chromatography: a review, 352 (1997) 1

Štulík, K., see Li, T., 360 (1998) 53

Štulík, K., see Opekar, F., 385 (1999) 151

Stull, A.D., see McNamara, K.P., 361 (1998) 73

Sturrock, P.E. and O'Brien, G.E., Voltammetry with programmed baseline compensation, 324 (1996) 135

Styron, R.W., see Hurst, V.J., 337 (1997) 233

Su, C. and Ka, W.L., Negative ion liquid secondary ion mass spectrometry and tandem mass spectrometric analysis of the molecular species of aminophospholipids as 9-fluorenylmethyloxycarbonyl derivatives, 326 (1996) 127

Su, P.G. and Huang, S.D., Use of 4-(2-pyridylazo)resocinol or 2-(2-pyridylazo)-5-dimethylaminophenol as chelating agent for determination of cadmium in seawater by atomic absorption spectrometry with on-line flow-injection sorbent extraction, 376 (1998) 305

Su, W., see Zhu, Q.Z., 375 (1998) 177

Su, X., see Bao, L., 369 (1998) 139

Su, X., see Qu, X., 374 (1998) 47

Su, X.-l., Nie, L.-h. and Yao, S.-z., A novel gas-diffusion/flow-injection system coupled with a bulk acoustic wave impedance sensor for total inorganic carbonate and its application to determination of total inorganic and total organic carbon in waters, 349 (1997) 143

Su, Y., see You, J., 367 (1998) 69

Su, Z., see Chang, X., 354 (1997) 143

Suard, C., Mourel, R.-M., Cerdan, B., Bart, G. and Feinberg, M.H., Modeling energy transfer in a focused microwave digestor, 318 (1996) 261

Suárez-Iha, M.E.V., see Prada, S.M., 329 (1996) 197

Sucar Succar, S., see Manriquez, J., 378 (1999) 159

Suchánková, J., see Štulík, K., 352 (1997) 1

Sudo, Y., see Kawakami, M., 362 (1998) 177

Sueda, S., Ihara, T., Juskowiak, B. and Takagi, M., Detection of higher-ordered DNA sequence by using terbium(III) luminescence, 365 (1998) 27

Suehiro, T., see Watanabe, T., 386 (1999) 69

Sugahara, K., see Kodama, H., 352 (1997) 141

Sugata, K., see Nakano, N., 302 (1995) 201

Sugawara, K., Miyasita, T., Hoshi, S. and Akatsuka, K., Voltammetric detection of MoO<sup>2-4</sup> at a modified carbon paste electrode containing chitin, 353 (1997) 301

Sugawara, Y., Hara, C., Tamura, K., Fujii, T., Nakamura, K., Masujima, T. and Aoki, T., Sedative effect on humans of inhalation of essential oil of linalool: Sensory evaluation and physiological measurements using optically active linalools, 365 (1998) 293

Sugawara, Y., see Nakamura, K.i., 365 (1998) 267

Sugihara, H., see Li-Xian, S., 329 (1996) 57

Sugimoto, K., see Hiraide, M., 302 (1995) 103

Sugimoto, N., see Kawakami, J., 365 (1998) 95

Sugimoto, T., see Koh, T., 333 (1996) 167

Sugiura, E., see Tajima, I., 365 (1998) 147

Suglobova, E., see Legin, A., 385 (1999) 131

Suk Kim, J., see Heon Lee, C., 382 (1999) 199

Sule, P.A. and Ingle, J.D., Determination of the speciation of chromium with an automated two-column ion-exchange system, 326 (1996) 85

Sulistyarti, H., Cardwell, T.J. and Kolev, S.D., Determination of cyanide as tetracyanonickelate(II) by flow injection and spectrophotometric detection, 357 (1997) 103

Sulistyarti, H., J. Cardwell, T., Luque de Castro, M.D. and Kolev, S.D., On-line determination of cyanide in the presence of sulfide by flow injection with pervaporation, 390 (1999) 133

Sulka, G.D. and Jaskuła, M., Kinetics based determination of trace amounts of silver at the excess of copper ions, 394 (1999) 185

Sumida, A., see Kataoka, H., 358 (1998) 269

Sun, C., see Song, W., 394 (1999) 73

Sun, F., Littlejohn, D. and David Gibson, M., Ultrasonication extraction and solid phase extraction clean-up for determination of US EPA 16 priority pollutant polycyclic aromatic hydrocarbons in soils by reversed-phase liquid chromatography with ultraviolet absorption detection, 364 (1998) 1

Sun, H., see You, J., 382 (1999) 51

Sun, H.-w., see Zhang, D.q., 395 (1999) 173

Sun, H.-w., Yang, L.-l., Zhang, D.-q. and Sun, J.-m., Direct determination of silver at parts-per-billion level in waters by derivative atomic absorption spectrometry using the atom trapping technique, 353 (1997) 79

Sun, I.W., see Yang, H.Y., 358 (1998) 285

Sun, J., Schulman, S.G. and Perrin, J.H., Chemiluminescence of βlactam antibiotics following oxidation by potassium superoxide. 338 (1997) 1

Sun, J.-m., see Sun, H.-w., 353 (1997) 79

Sun, K., see Liu, H., 358 (1998) 137

Sun, L., see Kiba, N., 378 (1999) 169

Sun, L., see Tsen, M., 307 (1995) 333

Sun, L., see Yang, J., 363 (1998) 105

Sun, W., see Shi, G., 391 (1999) 307

Sun, W., see Xian, Y., 381 (1999) 191

Sun, W., Zhang, S., Liu, H., Jin, L. and Kong, J., Electrocatalytic reduction of nitrite at a glassy carbon electrode surface modified with palladium(II)-substituted Keggin type heteropolytungstate, 388 (1999) 103

Sun, W.l., see Zhang, S., 386 (1999) 21

Sun, W.I., see Zhang, S., 399 (1999) 213

Sun, X., see You, J., 391 (1999) 43

Sun, Y., see Wang, C., 361 (1998) 133

Sun, Y., Ye, B., Zhang, W. and Zhou, X., Simultaneous determination of dopamine and ascorbic acid at poly(neutral red) modified electrodes, 363 (1998) 75 Sun, Y.C. and Yang, J.Y., Simultaneous determination of arsenic(III,V), selenium(IV,VI), and antimony(III,V) in natural water by coprecipitation and neutron activation analysis, 395 (1999) 293

Sun, Y.C., see Mierzwa, J., 355 (1997) 277

Sun, Y.L., see Li, M.X., 356 (1997) 225

Sundaresan, M., see Bari, V.R., 376 (1998) 221

Sundaresan, M., see Bhoir, I.C., 354 (1997) 123

Sundaresan, M., see Patel, Y., 362 (1998) 271

Sundaresan, M., see Patil, S.T., 384 (1999) 143

Sundqvist, S., Leppämäki, M., Paatero, E. and Minkkinen, P., Application of IR spectroscopy and multivariate calibration to monitor the fusion synthesis of Ca- and Ca/Mg-resinates, 391 (1999) 269

Sung, Y.-H., see Huang, S.-D., 343 (1997) 101

Surareungchai, W., Worasing, S., Sritongkum, P., Tanticharoen, M. and Kirtikara, K., Dual electrode signal-subtracted biosensor for simultaneous flow injection determination of sucrose and glucose, 380 (1999) 7

Sures, B., Taraschewski, H. and Haug, C., Determination of trace metals (Cd, Pb) in fish by electrothermal atomic absorption spectrometry after microwave digestion, 311 (1995) 135

Surmeian, M., see Dumitrescu, V., 333 (1996) 181

Sushe, Z., see Hongzhi, X., 319 (1996) 239

Susin, S., see Abián, J., 302 (1995) 215

Sutheimer, S.H. and Cabaniss, S.E., Determination of trace aluminum in natural waters by flow-injection analysis with fluorescent detection of the lumogallion complex, 303 (1995) 211

Sutheimer, S.H., Ferraco, M.J. and Cabaniss, S.E., Molecular size effects on carboxyl acidity: implications for humic substances, 304 (1995) 187

Sutherland, D.R., see Wring, S.A., 334 (1996) 225

Sutter, J.M., Peterson, T.A. and Jurs, P.C., Prediction of gas chromatographic retention indices of alkylbenzenes, 342 (1997) 113

Sutthivaiyakit, P., see Thorburn Burns, D., 356 (1997) 141]

Suzuki, H., Hirakawa, T., Sasaki, S. and Karube, I., An integrated three-electrode system with a micromachined liquid-junction Ag/AgCl reference electrode, 387 (1999) 103

Suzuki, H., see Yang, Z., 357 (1997) 41

Suzuki, I., see He, P., 337 (1997) 217

Suzuki, K., see Baba, G., 380 (1999) 173

Suzuki, K., see Endo, M., 364 (1998) 13

Suzuki, K., see Hisamoto, H., 304 (1995) 171

Suzuki, K., see Hisamoto, H., 342 (1997) 31

Suzuki, K., see Hisamoto, H., 373 (1998) 271

Suzuki, K., see Hisamoto, H., 375 (1998) 271 Suzuki, K., see Hisamoto, H., 396 (1999) 131

Suzuki, K., see Kyungho, K., 343 (1997) 199

Suzuki, N., see Kawakami, M., 362 (1998) 177

Suzuki, O., see Kumazawa, T., 387 (1999) 53

Suzuki, T., see Ahsan, S., 362 (1998) 279

Suzuki, T., see Tsukada, S., 371 (1998) 163

Suzuki, T., Watanabe, T. and Toyo'oka, T., Discrimination of D/Lamino acid in peptide sequence based on fluorescent chiral derivatization by reversed-phase liquid chromatography, 352 (1997) 357

Suzuki, T.T., see Kiba, N., 378 (1999) 169

Suzuki, Y., Automated analysis of low-molecular weight organic acids in ambient air by a microporous tube diffusion scrubber system coupled to ion chromatography, 353 (1997) 227

Svehla, G., see O'Keeffe, M., 306 (1995) 91

Sverko, E., see Zaruk, D., 376 (1998) 113

Švorc, J., see Katrlík, J., 331 (1996) 225

Švorc, J., see Katrlík, J., 356 (1997) 217

Švorc, J., see Katrlík, J., 379 (1999) 193

Swain, G.M., see Granger, M.C., 397 (1999) 145

Swan, H.B., see Ivey, J.P., 306 (1995) 259

Swee, N.T., see Juan, L., 335 (1996) 137

Sweedler, J.V., see Dahlgren, R.L., 400 (1999) 13

Sweedler, J.V., see Forbes, G.A., 347 (1997) 289

Sweedler, J.V., see Shippy, S.A., 307 (1995) 163

Sweeley, C.C., see Wiesner, D.A., 311 (1995) 57

Sweileh, J.A., Study of equilibria in cyanide systems by gas-diffusion measurement of hydrogen cyanide, 336 (1996) 131

Święcicka, E., see Balcerzak, M., 349 (1997) 53

Swinney, K., Markov, D., Hankins, J. and Bornhop, D.J., Microinterferometric backscatter detection using a diode laser, 400 (1999) 265

Swit, Z., see Szymanski, A., 311 (1995) 31

Swoboda, H., see Hutter, W., 306 (1995) 237

Syamsunder, S., see Krishna, G.R., 309 (1995) 333

Sybr, M., see Král, R., 304 (1995) 237

Székács, A., Le, H.M., Knopp, D. and Niessner, R., A modified enzyme-linked immunosorbent assay (ELISA) for polyaromatic hydrocarbons, 399 (1999) 127

Szpunar, J., Ceulemans, M., Schmitt, V.O., Adams, F.C. and Łobiński, R., Microwave-accelerated speciation analysis for butylin compounds in sediments and biomaterials by large volume injection capillary gas chromatography quartz furnace atomic absorption spectrometry, 332 (1996) 225

Szpunar, J., Makarov, A., Pieper, T., Keppler, B.K. and Łobiński, R., Investigation of metallodrug-protein interactions by size-exclusion chromatography coupled with inductively coupled plasma mass spectrometry (ICP-MS), 387 (1999) 135

Szpunar, J., see Łobiński, R., 400 (1999) 321

Sztajnbok, P., see Brecht, A., 362 (1998) 69

Szymanowski, J., see Apostoluk, W., 374 (1998) 137

Szymanski, A., see Wyrwas, B., 331 (1996) 131

Szymanski, A., Swit, Z. and Lukaszewski, Z., Studies of preservation of water samples for the determination of non-ionic surfactants, 311 (1995) 31

Szymanski, A., Wyrwas, B. and Lukaszewski, Z., Application of an indirect tensammetric method for the determination of non-ionic surfactants in surface water, 305 (1995) 256

### T

Tabak, M., see Almeida, L.E., 375 (1998) 223

Tabak, M., see Borissevitch, I.E., 343 (1997) 281

Tabak, M., see Tominaga, T.T., 315 (1995) 217

Tabera, J., see Ramos, L., 376 (1998) 313

Taccini, M., see Del Carlo, M., 342 (1997) 189

Tachibana, M., see Kiba, N., 375 (1998) 65

Taddia, M., Lucano, C. and Juris, A., Analytical characterization of supramolecular species – determination of ruthenium and osmium in dendrimers by electrothermal atomic absorption spectrometry, 375 (1998) 285

Tae, Y.E., see Chang, H.L., 351 (1997) 57

Taga, M., see Fukushima, M., 302 (1995) 365

Taga, Y., see Tomiyasu, T., 319 (1996) 199

Tagami, K., see Uchida, S., 357 (1997) 1

Tagliaro, F., see McGrath, G.J., 322 (1996) 159

Tahán, J.E., Marcano, L. and Romero, R.A., Anodic stripping voltammetric determination of total lead in anencephalic fetuses after pressure/temperature-controlled microwave mineralization, 317 (1995) 311

Tahán, J.E., see Granadillo, V.A., 306 (1995) 139

Taher, M.A., Third derivative spectrophotometric determination of trace rhodium after pre-concentration with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol chelate/tetraphenylborate ion pair on microcrystalline naphthalene, 382 (1999) 339

Taib, M.N., Andres, R. and Narayanaswamy, R., Extending the response range of an optical fibre pH sensor using an artificial neural network, 330 (1996) 31

Taibi, K., see Degueldre, C., 321 (1996) 201

Tailin, Y., see Haiying, L., 344 (1997) 187

Tait, R.J., Finnin, B.C., Reed, B.L. and Bond, A.M., A study of irreversible electrode processes under steady-state flowing solution conditions with a microelectrode based scanning electrochemical detector, 324 (1996) 1

Tajima, I., Asami, O. and Sugiura, E., Monitor of antibodies in human saliva using a piezoelectric quartz crystal biosensor, 365 (1998) 147

Tajima, Y., see Kamiura, T., 327 (1996) 61

Takada, K., see Ashino, T., 312 (1995) 157

Takada, M., see Ishida, J., 309 (1995) 211

Takada, M., see Noda, H., 302 (1995) 335

Takada, T., see Nakajima, K., 309 (1995) 163

Takada, T., see Nakajima, K., 315 (1995) 371

Takagi, M., see Ihara, T., 365 (1998) 49

Takagi, M., see Sueda, S., 365 (1998) 27

Takahashi, A., Ueki, Y. and Igarashi, S., Homogeneous liquid-liquid extraction of uranium(VI) from acetate aqueous solution, 387 (1999) 71

Takahashi, S., see Katayama, Y., 365 (1998) 159

Takahashi, T., see Hiyama, T., 345 (1997) 131

Takahashi, T., see Saito, K., 378 (1999) 43

Takalo, H., see Härmä, H., 387 (1999) 11

Takamori, Y., see Asaeda, A., 365 (1998) 35

Takamura, K., see Arai, K., 365 (1998) 279

Takano, N., see Dapaah, A.R., 386 (1999) 281

Takashi, R., see Kozono, S., 368 (1998) 275

Takata, J., see Ihara, T., 365 (1998) 49

Takeda, K., Watanabe, S., Naka, H., Okuzaki, J. and Fujimoto, T., Determination of ultra-trace impurities in semiconductor-grade water and chemicals by inductively coupled plasma mass spectrometry following a concentration step by boiling with mannitol, 377 (1998) 47

Takeda, M., see Hikuma, M., 306 (1995) 209

Takeda, S., see Fukushi, K., 383 (1999) 205

Takenaka, M., Yamada, Y., Hayashi, M. and Endo, H., Determination of ultratrace metallic impurities in fluorocarbon polymers by electrothermal atomic absorption spectrometry after decomposition with a combustion system, 336 (1996) 151

Takeuchi, T. and Miwa, T., Signal enhancement of dansyl amino acids by fluorimetric detection with a packed flow cell in microcolumn liquid chromatography, 311 (1995) 231

Takeuchi, T., see Chu, J., 370 (1998) 125

Takeuchi, T., see Kugimiya, A., 365 (1998) 75

Takeuchi, T., see Kugimiya, A., 395 (1999) 251

Takeuchi, T., see Lee, T.-y., 302 (1995) 81

Takeuchi, T., see Matsui, J., 335 (1996) 71

Takeuchi, T., see Matsui, J., 343 (1997) 1

Takeuchi, T., see Matsui, J., 365 (1998) 89

Takeuchi, T., see Munaf, E., 334 (1996) 39

Takeuchi, T., see Munaf, E., 341 (1997) 225

Takeuchi, T., see Munaf, E., 379 (1999) 33

Takeuchi, T., see Yano, K., 357 (1997) 91

Takeuchi, T., see Yano, K., 363 (1998) 111

Takeuchi, T., see Zein, R., 335 (1996) 261

Takewaki, S., see Miyake, S., 376 (1998) 97 Takewaki, S., see Morimune, K., 376 (1998) 37

Taljaard, R.E. and Staden, J.F. van, Simultaneous determination of cobalt(II) and Ni(II) in water and soil samples with sequential injection analysis, 366 (1998) 177

Taljaard, R.E., see van Staden, J.F., 323 (1996) 75

Taljaard, R.E., see van Staden, J.F., 331 (1996) 271

Taljaard, R.E., see van Staden, J.F., 344 (1997) 281

Taljaard, R.E., see van Staden, J.F., 350 (1997) 37 Taljaard, R.E., see van Staden, J.F., 354 (1997) 59

Taljaard, R.E., see van Staden, J.F., 357 (1997) 141

Tálos, T., see Csapó, J., 339 (1997) 99

Tam, S.C., Hinds, L. and Thomson, W., A chromatographic method to characterize copper-binding ligands, 332 (1996) 241

Tamiya, E., see Koizumi, A., 399 (1999) 63

Tamiya, E., see Nagata, R., 304 (1995) 157

Tamiya, E., see Sasaki, S., 347 (1997) 275

Tamiya, E., see Yano, Y., 320 (1996) 269

Tamiya, E., see Yokoyama, K., 304 (1995) 139
Tamura, A., Khademizadeh, M., Ozawa, K. and Masujima, T.,
Direct observation of sample trapping process onto internal-

surface reversed-phase pre-column, 365 (1998) 115

Tamura, A., see Ozawa, K., 365 (1998) 3 Tamura, A., see Razee, S., 356 (1997) 1

Tamura, K., see Sugawara, Y., 365 (1998) 293

Tan, A., Zhang, L. and Xiao, C., Simultaneous and automatic determination of hydroxide and carbonate in aluminate solutions by a micro-titration method, 388 (1999) 219

Tan, H., see Bao, L., 369 (1998) 139

Tan, H., see Zhang, H., 374 (1998) 31

Tan, M., see Lui, J., 329 (1996) 297

Tan, P.M., see Möller, D., 306 (1995) 1

Tan, S., see Tong, A., 369 (1998) 11 Tan, S.N., see Li, J., 362 (1998) 203

Tanabe, K., see Yano, K., 363 (1998) 111

Tanaka, H., see Yanagihara, H., 335 (1996) 63

Tanaka, K., see Ohta, K., 359 (1998) 255

Tanaka, K., see Ohta, K., 373 (1998) 189

Tanaka, K., see Ohta, K., 381 (1999) 265

Tanaka, M., see Miura, M., 357 (1997) 177

Tanaka, M., see Miura, M., 373 (1998) 47

Tanaka, M., see Yoshinaga, M., 316 (1995) 121

Tanaka, S., Oba, K., Fukushima, M., Nakayasu, K. and Hasebe, K., Water solubility enhancement of pyrene in the presence of humic substances, 337 (1997) 351

Tanaka, S., see Fukushima, M., 302 (1995) 365

Tanaka, S., see Fukushima, M., 317 (1995) 195

Tanaka, S., see Fukushima, M., 322 (1996) 173

Tanaka, S., see Tong, A., 369 (1998) 11

Tanaka, Y., see Hirose, K., 365 (1998) 137

Tananaiko, M.M., see Belikov, K.N., 383 (1999) 277

Tandler, P.J., Butcher, J.A., Hu, T. and Harrington, P.d.B., Analysis of plastic recycling products by expert systems, 312 (1995) 231

Tandler, P.J., Harrington, P.d.B. and Richardson, H., Effects of static spectrum removal and noise on 2D-correlation spectra of kinetic data, 368 (1998) 45

Tang, L.X., Rowell, F.J. and Cumming, R.H., Monitoring proteolytic enzymes for health and safety in the manufacturing environment. A review, 347 (1997) 235

Tang, L.X., see Cumming, R., 311 (1995) 377

Tang, X.J., Xie, B., Larsson, P.O., Danielsson, B., Khayyami, M. and Johansson, G., Polyethyleneimine-coated reticulated vitreous carbon electrode with immobilized enzymes as a substrate detector, 374 (1998) 185

Tani, K., see Kiba, N., 375 (1998) 65

Tani, Y., see litaka, K., 338 (1997) 77

Tani, Y., Soma, M., Graf Harsànyi, E. and Umezawa, Y., Effect of dissolved oxygen on the response of Cu(II) ion-selective electrodes in metal buffer solutions, 395 (1999) 53

Taniai, T., see Sakuragawa, A., 374 (1998) 191

Tanigawa, M. and Okada, T., Atomic force microscopy of supercoiled DNA structure on mica, 365 (1998) 19

Taniguchi, H., see Katayama, M., 303 (1995) 333

Taniguchi, M., see Nagaosa, Y., 356 (1997) 135

Taniguchi, Y., see Ahsan, S., 362 (1998) 279

Tanimoto, T., Maekawa, K., Okada, S. and Yabe-Nishimura, C., Clinical analysis of aldose reductase for differential diagnosis of the pathogenesis of diabetic complication, 365 (1998) 285

Tanizawa, H., see Ogawa, A., 383 (1999) 221

Tanner, P.A. and Leong, L.S., Microwave vacuum drying of marine sediment: determination of moisture content, metals and total carbon, 342 (1997) 247

Tanner, P.A. and Wong, A.Y.S., Spectrophotometric determination of hydrogen peroxide in rainwater, 370 (1998) 279

Tanticharoen, M., see Somasundrum, M., 319 (1996) 59

Tanticharoen, M., see Surareungchai, W., 380 (1999) 7

Tao, S. and Kumamaru, T., Inductively coupled plasma atomic emission spectrometric determination of cadmium in biological and environmental materials using electrothermal vaporization after in situ alkylation, 310 (1995) 369

Tao, S., Okamoto, Y. and Kumamaru, T., Inductively coupled plasma atomic emission spectrometric determination of beryllium in aluminium-based alloys and rock samples by introducing beryllium into the plasma as ethylberyllium species, 309 (1995) 379

Tao, S., see Shi, G., 391 (1999) 307

Tao, S., see Zhang, S., 386 (1999) 21

Tao, S., see Zhang, S., 399 (1999) 213

Tao, Z., see Zhang, J., 378 (1999) 177

Tao, Z.Y., Zhang, J. and Zhai, J.J., Characterization and differentiation of humic acids and fulvic acids in soils from various regions of China by nuclear magnetic resonance spectroscopy, 395 (1999) 199

Tapia, J., see Bruhn, C.G., 306 (1995) 183

Tarandjiiska, R.B. and Marekov, I.N., Precise classification of virgin olive oils with various linoleic acid contents based on triacylglycerol analysis, 364 (1998) 83

Taranova, L.A., see Reshetilov, A.N., 347 (1997) 19

Taraschewski, H., see Sures, B., 311 (1995) 135

Tarbin, J.A., Farrington, W.H.H. and Shearer, G., Determination of penicillins in animal tissues at trace residue concentrations Part I. Determination of benzylpenicillin in milk by reversed-phase liquid chromatography with solid phase extraction and liquid chromatographic fractionation clean-up, 318 (1995) 95

Tarnowski, D.J. and Korzeniewski, C., Amperometric detection with membrane-based sampling for percent-level determinations of

ethanol, 332 (1996) 111

Tarus, B., see Andreou, V.G., 350 (1997) 121

Tash, S., see Miran Beigi, A.A., 381 (1999) 117

Tashiro, K., see Yokoyama, T., 398 (1999) 75

Tatebe, A., see Yuchi, A., 387 (1999) 189

Tateda, A., see Matsuoka, S., 317 (1995) 207

Tatoulian, M., see Ben Rejeb, S., 376 (1998) 133

Tatsuma, T., Ariyama, K. and Oyama, N., Peroxidase-incorporated hydrophilic polythiophene electrode for the determination of hydrogen peroxide in acetonitrile, 318 (1996) 297

Tauler, R., see Casassas, E., 310 (1995) 473

Tauler, R., see Díaz-Cruz, M.S., 385 (1999) 353

Tauler, R., see de Juan, A., 346 (1997) 307

Tauler, R., see Gargallo, R., 331 (1996) 195

Tauler, R., see Grabarić, B.S., 341 (1997) 105 Tauler, R., see Kudrev, A., 363 (1998) 119

Tauler, R., see Mendieta, J., 390 (1999) 15

Tauler, R., see Puigdomènech, A., 355 (1997) 181

Tauler, R., see Saurina, J., 312 (1995) 189 Tauler, R., see Saurina, J., 335 (1996) 41

Tauler, R., see Smilde, A.K., 398 (1999) 237

Tauler, R., see Toribio, M., 310 (1995) 297

Tauler, R., see Torres, M., 371 (1998) 23

Tavakkoli, N., Khojasteh, Z., Sharghi, H. and Shamsipur, M., Lead ion-selective membrane electrodes based on some recently synthesized 9,10-anthraquinone derivatives, 360 (1998) 203

Tavakol, F., see Abbaspour, A., 378 (1999) 145

Tavares, M.F., see Colombara, R., 388 (1999) 171

Tavčar, G., Ogorevc, B., Xiaohua, C. and Pihlar, B., CeO2 thin film electrode with a built-in electrochemically resetable oxidant for potentiometric stripping analysis, 329 (1996) 239

Tavčar, G., see De Backer, A., 334 (1996) 103

Taverna, M., see Pantazaki, A., 383 (1999) 137

Taverna, P.J., Mayfield, H. and Andrews, A.R., Determination of cadmium ions in water by a novel electrochemiluminescence method, 373 (1998) 111

Tawara-Kondo, E., see Kurosawa, S., 337 (1997) 1

Taylor, L.T., see Ashraf-Khorassani, M., 347 (1997) 305

Taylor, L.T., see Ashraf-Khorassani, M., 379 (1999) 1

Taylor, L.T., see Combs, M.T., 341 (1997) 285

Taylor, L.T., see Palma, M., 391 (1999) 321

Taylor, M.J.C. and van Staden, J.F., Determination of vanadium(IV) and vanadium(V) by formation of a transient mixed valence complex in a flow-injection manifold, 307 (1995) 1

Taylor, M.J.C., Marshall, G.D., Williams, S.J.S., van Staden, J.F. and Saling, C., The determination of vanadium(V) in the presence of vanadium(IV) using 4-(2-pyridylazo)resorcinol in a flow-injection manifold, 329 (1996) 275

Taylor, P.D.P., see Papadakis, I., 346 (1997) 17

Taylor, P.D.P., see Wolff, J.-C., 346 (1997) 3

Taylor, R., see Croudace, I., 371 (1998) 217

Ta-Yung, C., see Amarasinghe, S., 307 (1995) 227

Teasdale, P.R., Minett, A.I., Dixon, K., Lewis, T.W. and Batley, G.E., Practical improvements for redox potential  $(E_{\rm H})$  measurements and the application of a multiple-electrode redox probe (MERP) for characterising sediment in situ, 367 (1998) 201

Teijeiro, C., see Marín, D., 358 (1998) 45

Teixeira, L.S., Rocha, F.R., Korn, M., Reis, B.F., Ferreira, S.L. and Costa, A.C., Flow-injection solid-phase spectrophotometry for the determination of zinc in pharmaceutical preparations, 383 (1999) 309

Teixidor, F., see Casabó, J., 320 (1996) 63

Temerk, Y.M., see El-Maali, N.A., 353 (1997) 313

Temerk, Y.M., see Ibrahim, M.S., 328 (1996) 47

Temmerman, E., see Westbroek, P., 385 (1999) 423

ten Hove, G.J., see Visser, T., 342 (1997) 151

Tena, M.T., see Cañizares, M.P., 323 (1996) 55

Tena, M.T., see Lopes da Conceição, A.C., 343 (1997) 191

Tena, M.T., see Papaefstathiou, I., 308 (1995) 246

Tendler, S.J.B., see Pope, L.H., 400 (1999) 27

Tengberg, A., see Berntsson, M., 355 (1997) 43

Tennent, N.H., see Gibson, L.T., 337 (1997) 151

Tennent, N.H., see Gibson, L.T., 337 (1997) 253

Tennent, N.H., see Gibson, L.T., 341 (1997) 1

Tennent, N.H., see Gibson, L.T., 341 (1997) 11

Teplán, I., see Idei, M., 372 (1998) 273

Terao, H., see Yuchi, A., 388 (1999) 201

Terato, H., see Asaeda, A., 365 (1998) 35

Terato, H., Yoshimura, M., Hayashi, M., Ohyama, Y., Yamamoto, O. and Ide, H., Formation of highly fluorescent adducts between 2'deoxyguanosine and amino acids by ionizing radiation, 365 (1998) 183

Tercier, M.-L., see Belmont, C., 329 (1996) 203

Tercier, M.-L., see Town, R.M., 302 (1995) 1

Terentjev, A., see Moritz, W., 393 (1999) 49

Teresa Sevilla, M., see Jesús Gismera, M., 385 (1999) 143

Teresa Tena, M., see Arce, L., 359 (1998) 27

Tereschenko, M.I., see Sergeyeva, T.A., 390 (1999) 73

Terpetschnig, E., see Pringsheim, E., 357 (1997) 247

Terrón, M.C., see Calvo, A.M., 309 (1995) 145

Terwiesch, P., see Garland, M., 351 (1997) 337

Teshima, N., see Saitoh, K., 376 (1998) 247

Teshima, N., see Tomiyasu, T., 394 (1999) 55

Teshima, N., see Watanabe, T., 374 (1998) 303

Tessema, M., Larsson, T., Buttler, T., Csöregi, E., Ruzgas, T., Nordling, M., Lindquist, S.-E., Pettersson, G. and Gorton, L., Simultaneous amperometric determination of some mono-, di-, and oligosaccharides in flow injection and liquid chromatography using two working enzyme electrodes with different selectivity, 349 (1997) 179

Tessema, M., Ruzgas, T., Gorton, L. and Ikeda, T., Flow injection amperometric determination of glucose and some other low molecular weight saccharides based on oligosaccharide dehydrogenase mediated by benzoquinone systems, 310 (1995)

Tessema, M., see Larsson, T., 331 (1996) 207

Tessier, D.M. and Marshall Clark, J., An enzyme immunoassay for mutagenic metabolites of the herbicide alachlor, 376 (1998) 103

Tessier, E., see Amouroux, D., 377 (1998) 241

Tessier, L., Schmitt, N., Watier, H., Brumas, V. and Patat, F., Potential of the thickness shear mode acoustic immunosensors for biological analysis, 347 (1997) 207

Teymouri, M., see Miran Beigi, A.A., 381 (1999) 117

Thacker, J.D. and Casale, E.S., A high-throughput ELISA system for surface water and groundwater analysis, 376 (1998) 61

Thanasoulias, N.K., see Evmiridis, N.P., 398 (1999) 191

Thatipamala, R., see Luong, J.H.T., 319 (1996) 325

Theobald, A., see O'Keeffe, M., 306 (1995) 91

Theresa Lee-Alvarez, M., see Barroso-Fernandez, B., 370 (1998) 221

Thiele, H., see Elyashberg, M.E., 337 (1997) 265

Thiele, H., see Elyashberg, M.E., 348 (1997) 443

Thiemann, W., see Ma, H., 362 (1998) 121

Thoma, H., see Vierle, O., 393 (1999) 131

Thomas, A.C., see Aupiais, J., 398 (1999) 205 Thomas, A.Ch., see Bauzá de Mirabó, F.M., 355 (1997) 203

Thomas, B.A., see Guéguen, C., 386 (1999) 155

Thomas, C.L.P., see Przybylko, A.R.M., 311 (1995) 77

Thomas, C.L.P., see Przybylko, A.R.M., 330 (1996) 229

Thomas, C.L.P., see Young, D., 381 (1999) 69

Thomas, O., see Roig, B., 389 (1999) 267

Thomas, R.P., see Sahuquillo, A., 382 (1999) 317

Thomas, S.M., see Bartlett, M.G., 346 (1997) 223

Thompson, M., see Li, P.C.H., 336 (1996) 13

Thompson, M., see Li, P.C.H., 353 (1997) 255

Thompson, M., see Muratsugu, M., 342 (1997) 23

Thompson, M., see Yang, M., 346 (1997) 259

Thomson, W., see Tam, S.C., 332 (1996) 241

Thorburn Burns, D., Dunford, M.D. and Sutthivaiyakit, P., Spectrophotometric determination of perchlorate after extraction as protriptylinium perchlorate, 356 (1997) 141]

Thorburn Burns, D., Lewis, R.J. and Bridges, J., Systematic approach to the identification of water-gel explosives, 375 (1998) 255

Thorburn Burns, D., see Barakat, S.A., 355 (1997) 163

Thorburn Burns, D., see Barakat, S.A., 355 (1997) 167

Thordsen, O., see Ulber, R., 373 (1998) 253

Thornburg, N.A., see Land, D.P., 307 (1995) 321

Thorsén, G., see Kuban, P., 337 (1997) 117

Thunus, J., see Lejeune, R., 332 (1996) 67

Thunus, L., Voltammetric determination of boron in plasma using Beryllon(III) as a ligand, 318 (1996) 303

Thunus, L., see Lejeune, R., 332 (1996) 67

Thunus, L., see Otte, X., 355 (1997) 7

Thust, M., Schöning, M.J., Vetter, J., Kordos, P. and Lüth, H., A long-term stable penicillin-sensitive potentiometric biosensor with enzyme immobilized by heterobifunctional cross-linking, 323 (1996) 115

Tian Jian, Y., see Shen K., Y., 309 (1995) 307

Tian, B., see Wang, J., 349 (1997) 77

Tian, B., see Wang, J., 354 (1997) 275

Tian, B., see Wang, J., 385 (1999) 429

Tian, B., see Wang, J., 396 (1999) 33

Tian, L.C., see Feng, Y.L., 375 (1998) 167

Tian, L.C., see Feng, Y.L., 386 (1999) 297

Tian, S. and Schwedt, G., A ternary complex system for the reversed-phase chromatography of chromate, 317 (1995) 189

Tian, Y.X., see Wing, H.C., 339 (1997) 173

Tian, Y.X., see Wing, H.C., 349 (1997) 349

Tian, Z.Q., see Zhao, Y.D., 388 (1999) 93

Tian-Yi, Z. and Shi-Min, Z., On-line electrochemistry-liquid chromatography with UV absorbance detection for elucidating the electrochemical oxidation mechanism of α-tocopherol in methanol, 309 (1995) 111

Tianze, Z., see Piving, G., 332 (1996) 307

Tiefenauer, L., see Padeste, C., 374 (1998) 167

Tiehua, H., see Niwa, O., 318 (1996) 167

Tiessen, R.G., Kaptein, W.A., Venema, K. and Korf, J., Slow ultrafiltration for continuous in vivo sampling: application for glucose and lactate in man, 379 (1999) 327

Tiezheng, L., see Benling, G., 304 (1995) 115

Tiffany, T.O., see Parab, S., 359 (1998) 157

Tilquin, B., see Ritter, C., 318 (1996) 125

Timerbaev, A.R., see Dabek-Zlotorzynska, E., 359 (1998) 1

Timmerman, W., see Westerink, B.H., 379 (1999) 263

Timmins, É.M., see Goodacre, R., 348 (1997) 511

Timmins, É.M., see Winson, M.K., 348 (1997) 273

Ting, Y.-S., see Zen, J.-M., 342 (1997) 175

Tinker, N.D., see Özel, M.Z., 346 (1997) 73

Tinker, R.A. and Smith, J.D., Simultaneous measurement of <sup>226</sup>Ra and <sup>133</sup>Ba using liquid scintillation counting with pulse shape discrimination, 332 (1996) 291

Tinoco, F., see Amarasinghe, S., 307 (1995) 227

Tipping, E., see Hesketh, N., 327 (1996) 191

Tipping, E., see Jones, M.N., 314 (1995) 149

Tipping, E., see Lead, J.R., 369 (1998) 171

Tirado, J., see Lorenzo, E., 309 (1995) 79

Tivesten, A., see Csapó, J., 339 (1997) 99

Tjerneld, F., see Torto, N., 313 (1995) 15

Tkalčec, M., see Milardović, S., 350 (1997) 91

Tobalina, F., Pariente, F., Hernández, L., Abruña, H.D. and Lorenzo, E., Carbon felt composite electrodes and their use in electrochemical sensing: a biosensor based on alcohol dehydrogenase, 358 (1998) 15 Toda, E., Hioki, A. and Kubota, M., Determination of impurities in high-purity selenium by inductively coupled plasma mass spectrometry after acetate-form anion-exchange separation, 333 (1996) 51

Toda, K., see Omote, J., 307 (1995) 117

Todeschini, R., Data correlation, number of significant principal components and shape of molecules. The K correlation index, 348 (1997) 419

Todolí, J.L., see Cuesta, A., 372 (1998) 399

Toft, J., see Sánchez, F.C., 314 (1995) 131

Toft, S.A., see Eggins, B.R., 347 (1997) 281

Tohda, K., see Amemiya, S., 341 (1997) 129

Tohda, K., see Amemiya, S., 351 (1997) 407

Tohma, H., see Hisamoto, H., 373 (1998) 271

Tohma, M., see Kurosawa, T., 365 (1998) 249

Tohno, Y., see Minami, T., 372 (1998) 241

Toivanen, P., see Manoochehri, F., 380 (1999) 327

Toja, A., see Rey, F., 304 (1995) 375

Tokumaru, S., Tsukamoto, I., Iguchi, H. and Kojo, S., Specific and sensitive determination of lipid hydroperoxides with chemical derivatization into 1-naphthyldiphenylphosphine oxide and highperformance liquid chromatography, 307 (1995) 97

Tokunaga, N., see Hirakawa, Y., 389 (1999) 69

Tolosa, I. and Readman, J.W., Simultaneous analysis of the antifouling agents: tributyltin, triphenyltin and IRGAROL 1051 in marina water samples, 335 (1996) 267

Toma, H.E., see Angnes, L., 329 (1996) 91

Toma, H.E., see Azevedo, C.M., 387 (1999) 175

Tomàs, C., see Cladera, A., 302 (1995) 297

Tomás, V., see Pérez-Ruiz, T., 326 (1996) 41 Tomás, X., see Sarabia, L.A., 348 (1997) 11

Tomassetti, M., see Campanella, L., 305 (1995) 32

Tomassetti, M., see Campanella, L., 385 (1999) 59

Tomassetti, M., see Campanella, L., 393 (1999) 109

Tombelli, S. and Mascini, M., Electrochemical biosensors for biogenic amines: a comparison between different approaches, 358 (1998) 277

Tomčík, P., see Bustin, D., 305 (1995) 121

Tomčík, P., Mesároš, S. and Bustin, D., Titrations with electrogenerated hypobromite in the diffusion layer of interdigitated microelectrode array, 374 (1998) 283

Tomico, A., see Puig-Lleixà, C., 359 (1998) 311

Tomimasu, T., see Awazu, K., 365 (1998) 193

Tominaga, M., see Wenzhi, H., 322 (1996) 43

Tominaga, T.T., Imasato, H., Nascimento, O.R. and Tabak, M., Interaction of tyrosine and tyrosine dipeptides with Cu<sup>2+</sup> ions: a fluorescence study, 315 (1995) 217

Tominaga, T.T., see Borissevitch, I.E., 343 (1997) 281

Tomišić, V., see Galić, N., 343 (1997) 135

Tomiyasu, T., Kinetic spectrophotometric determination of traces of tungsten(VI) by the catalytic reaction of chlorpromazine with hydrogen peroxide. A mechanistic study, 312 (1995) 179

Tomiyasu, T., Kinetic-mechanistic study of the chlorpromazinehydrogen peroxide reaction catalyzed by molybdenum(VI) and tungsten(VI), and their differential determination, 349 (1997) 43

Tomiyasu, T., Sakamoto, H. and Yonehara, N., Kinetic and mechanistic study of the chlorpromazine-hydrogen peroxide reaction for the catalytic spectrophotometric determination of iodide, 320

Tomiyasu, T., Taga, Y., Sakamoto, H. and Yonehara, N., Spectrophotometric determination of trace bromide by its catalytic effect on the tetrabase-chloramine T reaction, 319 (1996) 199

Tomiyasu, T., Yonehara, N., Teshima, N. and Kawashima, T., Kinetic method for the determination of iron(II, III) by its catalytic effect on the oxidation of 3-methyl-2-benzothiazolinone hydrazone with hydrogen peroxide, 394 (1999) 55

Tomizawa, Y., see Kamaya, M., 362 (1998) 157

Tomlinson, M.J. and Caruso, J.A., Speciation of chromium using thermospray nebulization as sample introduction into inductively coupled plasma mass spectrometry, 322 (1996) 1

Tomlinson, W.R., see Makovskaya, V., 315 (1995) 183

Tomlinson, W.R., see Makovskaya, V., 315 (1995) 193

Tömpe, P., Clementis, G., Petneházy, I., Jászay, Z.M. and T'ke, L., Quantitative structure-electrochemistry relationships of  $\alpha,\beta$ unsaturated ketones, 305 (1995) 295

Tomschik, M., see Cai, X., 344 (1997) 65

Tonarini, S., see D'Orazio, M., 351 (1997) 325

Tong, A., Wu, Y., Tan, S., Li, L., Akama, Y. and Tanaka, S., Aqueous two-phase system of cationic and anionic surfactant mixture and its application to the extraction of porphyrins and metalloporphyrins, 369 (1998) 11

Tong, A.J., Dong, J.J. and Li, L.D., Aqueous two-phase extraction system of sodium perfluorooctanoate and dodecyltriethylammonium bromide mixture and its application to porphyrins and dyes, 390 (1999) 125

Tong, P. and Imagawa, T., Optimization of supercritical fluid extraction for polychlorinated biphenyls from sediments, 310 (1995)93

Tong, P., see Dilli, S., 395 (1999) 101

Tong, S.Y., see Wang, Y.T., 396 (1999) 75

Tong, S.-y., see Wei, Y.-j., 341 (1997) 97

Tong, S.Y., see Yao, G., 398 (1999) 319

Tongyin, Y., see Haiying, L., 329 (1996) 97

Tongyin, Y., see Yongcheng, L., 316 (1995) 65 Toniolo, R., see Schiavon, G., 305 (1995) 212

Too, C.O., see Akhtar, P., 339 (1997) 201

Too, C.O., see Akhtar, P., 339 (1997) 211 Too, C.O., see Akhtar, P., 341 (1997) 141

Toriba, A., see Kubo, H., 309 (1995) 169 Toriba, A., see Kubo, H., 353 (1997) 345

Toribio, M., García, J.F., Izquierdo-Ridorsa, A. and Rauret, G., Multivariate calibration and spectrum position correction for simultaneous determination of alpha and beta emitting plutonium

isotopes by liquid scintillation, 356 (1997) 41

Toribio, M., García, J.F., Izquierdo-Ridorsa, A., Tauler, R. and Rauret, G., Simultaneous determination of plutonium alpha emitters by liquid scintillation counting using multivariate calibration, 310 (1995) 297

Toribio, M., Padró, A., García, J.F. and Rauret, G., Determination of mixtures of alpha emitting isotopes (242Pu, 239+240 Pu, 238 Pu) by using liquid scintillation-moving curve fitting, 380 (1999) 83

Toribio, M., see Garcia, J.F., 331 (1996) 33

Toribio, M., see Roig, M., 379 (1999) 121

Toribio, M.P.S., see Martinez, R.C., 321 (1996) 147

Torijas Minguez, M.C., see Navas Díaz, A., 363 (1998) 221

Torijas, M.C., see García Sánchez, F., 395 (1999) 133

Torijas, M.C., see Navas Díaz, A., 381 (1999) 11

Toro, I., see Barbosa, J., 347 (1997) 295

Toro, I., see Barbosa, J., 351 (1997) 397

Toro, I., see Barbosa, J., 389 (1999) 43

Torrades, F., Riva, M.C., Torres, S., Garcia Hortal, J.A., Domènech, X., Peral, J. and Pérez, M., Detection and elimination of the constant error component and the interactive matrix interference in the determination of adsorbable organic halogen (AOX) in bleached kraft paper pulp mill effluents, 333 (1996) 139

Torres Cartas, S., Garcia Alvarez-Coque, M.C. and Villanueva Camañas, R.M., Determination of anabolic steroids in pharmaceuticals by liquid chromatography with a microemulsion of sodium dodecyl sulfate and pentanol as mobile phase, 302 (1995)

Torres, J.M., Llauradó, M. and Rauret, G., Microwave-assisted digestion of soils for the determination of 90Sr, 355 (1997) 283

Torres, J.M., Llauradó, M. and Rauret, G., Microwave-assisted pretreatment of environmental samples for the determination of 90Sr, 379 (1999) 135

Torres, M., Díaz-Cruz, J.M., Ariño, C., Grabaric, B.S., Tauler, R. and Esteban, M., Multivariate curve resolution analysis of voltammetric data obtained at different time windows: study of the system Cd2+-nitrilotriacetic acid, 371 (1998) 23

Torres, P., Ballesteros, E. and de Castro, M.D.L., Microwaveassisted robotic method for the determination of trace metals in soil, 308 (1995) 371

Torres, P.A., see Wade, D.A., 397 (1999) 17

Torres, S., see Torrades, F., 333 (1996) 139

Torres-Cartas, S., Villanueva-Camañas, R.M. and Garcia-Alvarez-Coque, M.C., Modelling and optimization of the separation of steroids eluted with a micellar mobile phase of sodium dodecyl sulphate containing acetonitrile, 333 (1996) 31

Torres-Lapasió, J.R., García-Alvarez-Coque, M.C. and Baeza-Baeza, J.J., Global treatment of chromatographic data with MICHROM, 348 (1997) 187

Torres-Lapasió, J.R., see Carda-Broch, S., 396 (1999) 61

Torres-Lapasió, J.R., see García-Alvarez-Coque, M.C., 324 (1996)

Torro, I. Gil, see Icardo, M. Catalá, 398 (1999) 311

Torto, N., Buttler, T., Gorton, L., Marko-Varga, G., Stålbrand, H. and Tjerneld, F., Monitoring of enzymatic hydrolysis of ivory nut mannan using on-line microdialysis sampling and anionexchange chromatography with integrated pulsed electrochemical detection, 313 (1995) 15

Torto, N., Laurell, T., Gorton, L. and Marko-Varga, G., Recent trends in the application of microdialysis in bioprocesses, 374 (1998) 111

Torto, N., Laurell, T., Gorton, L. and Marko-Varga, G., Recent trends in the application of microdialysis in bioprocesses, 379 (1999) 281

Toru, T., see Fujita, S., 339 (1997) 289

Tóth, G., see Péter, A., 352 (1997) 335

Tóth, K., Nagy, G., Lan, B.T.T., Jeney, J. and Choquette, S.J., Planar waveguide ion-selective sensors, 353 (1997) 1

Tóth, K., see Nagy, G., 319 (1996) 49

Tothill, I.E., see White, S.F., 321 (1996) 165

Tournier, E.J.M., Wallach, J. and Blond, P., Sulfosuccinimidyl 4-(Nmaleimidomethyl)-1-cyclohexane carboxylate as a bifunctional immobilization agent. Optimization of the coupling conditions, 361 (1998) 33

Towler, P.H., Smith, J.D. and Dixon, D.R., Magnetic recovery of radium, lead and polonium from seawater samples after preconcentration on a magnetic adsorbent of manganese dioxide coated magnetite, 328 (1996) 53

Town, R.M., Chronopotentiometric stripping analysis as a probe for copper(II) and lead(II) complexation by fulvic acid: Limitations and potentialities, 363 (1998) 31

Town, R.M., Tercier, M.-L., Parthasarathy, N., Bujard, F., Rodak, S., Bernard, C. and Buffle, J., A versatile macro- to micro-size stationary mercury drop electrode, 302 (1995) 1

Townsend, R.W., see Schulman, S.G., 303 (1995) 25

Townshend, A., see Almuaibed, A.M., 338 (1997) 149

Townshend, A., see Almuaibed, A.M., 388 (1999) 339

Townshend, A., see Ghous, T., 332 (1996) 179

Townshend, A., see Ghous, T., 372 (1998) 379

Townshend, A., see Ghous, T., 387 (1999) 47

Townshend, A., see Li, Y.-Z., 340 (1997) 159

Townshend, A., see Li, Y.z., 359 (1998) 149

Townshend, A., see Marcos, J., 310 (1995) 173

Toyo'oka, T., see Suzuki, T., 352 (1997) 357

Toyo'oka, T., see Yi-Ming, L., 314 (1995) 169

Toyo'oka, T., see Ogawa, A., 383 (1999) 221 Tragas, C., see Wu, J., 383 (1999) 67

Tran. C.D., see Pasquini, C., 319 (1996) 315

Tran-Minh, C., see Naessens, M., 364 (1998) 153

Traulsen, F., Andersson, J.T. and Ehrhardt, M.G., Acidic and nonacidic products from the photo-oxidation of the crude oil component dibenzothiophene dissolved in seawater, 392 (1999)

Traverso, D.M., see Wenli, L., 362 (1998) 253

Travis, J.C., Kramer, G.W., Smith, M.V. and Choquette, S.J., Challenges in providing standard reference materials for chemical and pharmaceutical process analysis, 380 (1999) 115

Trecani, L., see Moulin, C., 321 (1996) 121

Tréguer, P., see Blain, S., 308 (1995) 425

Treguer, P., see Floch, J., 377 (1998) 157

Treiger, B., Bondarenko, I., Van Malderen, H. and Van Grieken, R., Elucidating the composition of atmospheric aerosols through the combined hierarchical, non-hierarchical and fuzzy clustering of large electron probe microanalysis data sets, 317 (1995)

Trettnak, W., see Trinkel, M., 320 (1996) 235

Trevin, S., see Bedioui, F., 341 (1997) 177

Trew, S., see Goodacre, R., 313 (1995) 25

Trier, X., see Lai, E.P., 364 (1998) 63

Trinkel, M., Trettnak, W., Reininger, F., Benes, R., O'Leary, P. and Wolfbeis, O.S., Study of the performance of an optochemical sensor for ammonia, 320 (1996) 235

Troccoli, O.E., see Andrade, F.J., 379 (1999) 99

Troccoli, O.E., see Azubel, M., 398 (1999) 93

Troitsky, V.I., see Di Natale, C., 384 (1999) 249

Trojánek, A., see Opekar, F., 390 (1999) 101

Trojanowicz, M., Alexander, P.W. and Brynn Hibbert, D., Flowinjection analysis wit potentiometric detection for the speciation of fluoride and calcium, 366 (1998) 23

Trojanowicz, M., Alexander, P.W. and Brynn Hibbert, D., Flowinjection potentiometric determination of free cadmium ions with a cadmium ion-selective electrode, 370 (1998) 267

Trojanowicz, M., see Pyrzyńska, K., 363 (1998) 141

Trouillet, A., see Ronot-Trioli, C., 319 (1996) 121

Troyer, K., see Wightman, R. Mark, 400 (1999) 5

Trubaceva, J.N., see Zherdev, A.V., 347 (1997) 131

Trubert, D., Monroy Guzman, F., Le Naour, C., Brillard, L., Hussonnois, M. and Constantinescu, O., Behaviour of Zr, Hf, Nb, Ta and Pa on macroporous anion exchanger in chloridefluoride media, 374 (1998) 149

Trubert, D., Monroy-Guzman, F., Hussonnois, M., Brillard, L., Le Naour, C. and Constantinescu, O., Search for chemical separation of element 106 homologues in HF and HF-HCl media, 332 (1996) 257

Trümpler, I., see Campins-Falcó, P., 344 (1997) 125

Truong, Y.B., see Benson, R.L., 326 (1996) 29

Tryzell, R. and Karlberg, B., Efficiency and response studies on gas diffusion manifolds in flow-injection systems, 308 (1995)

Tryzell, R. and Karlberg, B., Calibration methods for determination of ammonium and excess acid in Kjeldahl digests by flow injection analysis, 343 (1997) 183

Tryzell, R. and Karlberg, B., Comparison of various peak evaluation techniques for limited and extended dynamic ranges in flow injection systems, 364 (1998) 97

Tryzell, R., see Kuban, P., 337 (1997) 117

Trznadel, K., see Mohr, G.J., 360 (1998) 119

Tsagatakis, J.K., see Chaniotakis, N.A., 356 (1997) 105

Tsalev, D.L., see Guo, T., 349 (1997) 313

Tsao, G.T., see Srinivasan, N., 316 (1995) 269

Tsen, M. and Sun, L., Surface-enhanced Raman scattering from functionalized self-assembled monolayers Part 1. Distance dependence of enhanced Raman scattering from a terminal phenyl group, 307 (1995) 333

Tservistas, M., Weigel, B. and Schügerl, K., An on-line flowinjection analysis system for the determination of acetate, 316 (1995) 117

Tsipouras, A., Ondeyka, J., Dufresne, C., Seok, L., Salituro, G., Tsou, N., Goetz, M., Singh, S.B. and Kearsley, S.K., Using similarity searches over databases of estimated 13C NMR spectra for structure identification of natural product compounds, 316

(1995) 161

Tsou, N., see Tsipouras, A., 316 (1995) 161

Tsubuku, M., see Hisamoto, H., 396 (1999) 131

Tsuchida, E., see Röösli, S., 338 (1997) 119

Tsuchihashi, H., see Miki, A., 356 (1997) 165

Tsuchiya, Y., see Kawakubo, S., 310 (1995) 501

Tsuda, T., see Kamei, T., 365 (1998) 259

Tsuda, T., see Kamei, T., 365 (1998) 319

Tsuge, A., see Nakane, K., 369 (1998) 79

Tsuji, A., see Kokado, A., 337 (1997) 335

Tsuji, A., see Lin, J.-M., 339 (1997) 139

Tsuji, A., see Matsumoto, M., 346 (1997) 207

Tsuji, A., see Sasamoto, H., 306 (1995) 161

Tsuji, A., see Sasamoto, H., 309 (1995) 221

Tsuji, A., see Sasamoto, H., 310 (1995) 347

Tsuji, K., see Katsu, T., 354 (1997) 301

Tsujimura, A., see Kubo, H., 309 (1995) 169

Tsukada, S., Miki, H., Lin, J.M., Suzuki, T. and Yamada, M., Chemiluminescence from fluorescent organic compounds induced by cobalt(II) catalyzed decomposition of peroxomonosulfate, 371 (1998) 163

Tsukahara, S., see Ohashi, A., 364 (1998) 53

Tsukahara, S., see Ohashi, A., 394 (1999) 23

Tsukamoto, I., see Tokumaru, S., 307 (1995) 97

Tsukatani, T., see Matsumoto, K., 321 (1996) 157

Tsukube, H., see Lamb, J.D., 373 (1998) 167

Tsunematsu, K., see Matsumoto, M., 346 (1997) 207

Tsunoda, M., see Prados, P., 344 (1997) 227

Tsurubou, S., Umetani, S. and Komatsu, Y., Quantitative extraction separation systems of alkali and alkaline earth metal ions using cryptands as ion-size selective masking reagents, 394 (1999)

Tsuruta, Y., see Inoue, H., 365 (1998) 219

Tsuruta, Y., see Kohashi, K., 365 (1998) 177

Tsuzuki, M., see Lee, T.-v., 302 (1995) 81

Tsysin, G.I., see Kubrakova, I.V., 334 (1996) 167

Tu, F.-H., see Wang, C.-F., 342 (1997) 239

Tubino, M., see He, X., 389 (1999) 275

Tubino, M., see Liu, S.J., 366 (1998) 5

Tucker, I.G., see Agatonovic-Kustrin, S., 364 (1998) 265

Tucker, S.A., see Wade, D.A., 397 (1999) 17

Tudino, M.B., see Andrade, F.J., 379 (1999) 99

Tudino, M.B., see Azubel, M., 398 (1999) 93

Tugulea, L., see Brett, C.M.A., 322 (1996) 151

Tummavuori, J., see Piippanen, T., 349 (1997) 327

Tunçay, M., see Arikan, B., 335 (1996) 155

Tunikova, S.A., see Rajaković, L.V., 318 (1995) 77

Tuñón Blanco, P., see Fernández Villamil, M.J., 345 (1997) 37

Tuñón, P., see Lobo, M.J., 325 (1996) 33

Tuñón-Blanco, P., see Lobo-Castañón, M.J., 346 (1997) 165

Tuon, R.L., see Fernanda Giné, M., 366 (1998) 313

Tur'yan, Y.I., see Filanovsky, B., 364 (1998) 181

Turfeld, M., see Begerow, J., 340 (1997) 277

Turisová, J., see Šikurová, L., 303 (1995) 79

Turner, A.P., see Kröger, S., 368 (1998) 219

Turner, A.P.F., see Kröger, S., 347 (1997) 9 Turner, A.P.F., see Palchetti, I., 337 (1997) 315

Turner, A.P.F., see White, S.F., 321 (1996) 165

Turner, B.M., see Wako, T., 365 (1998) 9

Turner, D.R., see Bellerby, R.G.J., 309 (1995) 259

Turner, D.R., see Lyvén, B., 357 (1997) 187

Turnock, S., see Clayden, N.J., 344 (1997) 261

Turoczy, N.J. and Sherwood, J.E., Modification of the van den Berg/ Ruzic method for the investigation of complexation parameters of natural waters, 354 (1997) 15

Turoczy, N.J., see Bond, A.M., 310 (1995) 109

Turovsky, L., see Kuselman, I., 318 (1996) 327

Turunen, M., Peräniemi, S., Ahlgrén, M. and Westerholm, H., Determination of trace elements in heavy oil samples by graphite furnace and cold vapour atomic absorption spectrometry after acid digestion, 311 (1995) 85

Tuzhi, P., see Qiong, C., 369 (1998) 245

Tvarožek, V., see Bustin, D., 305 (1995) 121

Tvarozek, V., see Riepl, M., 392 (1999) 77

Twellmeyer, J., see O'Neill, S., 398 (1999) 1

Tyler, B.J., see Spangler, B.D., 399 (1999) 51

Tyson, J.F., see Chalk, S.J., 366 (1998) 147

Tyson, J.F., see Ramos, M.L., 364 (1998) 107

Tzamtzis, N., see Statheropoulos, M., 331 (1996) 53

Tzur, D. and Kirowa-Eisner, E., Consecutive titrations under nonequilibrium conditions. . A new mode of automatic titration, 355 (1997) 85

Tzur, D., Dosortzev, V. and Kirowa-Eisner, E., Titration of low levels of Fe<sup>2+</sup> with electrogenerated Ce<sup>4+</sup>, 392 (1999) 307

Tzur, D., see Kirowa-Eisner, E., 359 (1998) 115

Tzur, D., see Kirowa-Eisner, E., 385 (1999) 325

Uchida, A., see Nakanishi, K., 325 (1996) 73

Uchida, H., see Higashiura, M., 304 (1995) 317

Uchida, H., see Sakao, S., 355 (1997) 121

Uchida, H., see Sakao, S., 382 (1999) 215

Uchida, K., see Matsuda, Y., 365 (1998) 55

Uchida, S. and Tagami, K., Improvement of Tc separation procedure using a chromatographic resin for direct measurement by ICP-MS, 357 (1997) 1

Uchida, T., see Higashiura, M., 304 (1995) 317

Uchiyama, S., Hasebe, Y., Ishikawa, T. and Nishimoto, J., Formation of a stable adduct between 1,2-benzoquinone and dimethylamine and its application to the spectrophotometric determination of 1,2-benzoquinone, 351 (1997) 259

Uchiyama, S., see Fukaya, M., 306 (1995) 231

Uchiyama, S., see Hasebe, Y., 302 (1995) 21

Uchiyama, S., see Hasebe, Y., 357 (1997) 51

Ueda, K., see Sohrin, Y., 363 (1998) 11

Ueki, Y., see Takahashi, A., 387 (1999) 71

Uenishi, J., see Lamb, J.D., 373 (1998) 167

Ufer, S., see Mădăras, M.B., 319 (1996) 335

Ugarova, N., see Dukhovich, A., 303 (1995) 85

Uglow, R.F., see Sadok, S., 321 (1996) 69

Uglow, R.F., see Sadok, S., 334 (1996) 279

Ugo, P., Moretto, L.M. and Mazzocchin, G.A., Voltammetric determination of trace mercury in chloride media at glassy carbon electrodes modified with polycationic ionomers, 305 (1995) 74

Uhl, S., Rempfer, K., Egelhaaf, H.-J., Lehr, B. and Oelkrug, D., Fluorescence characterization of acid-base interaction and mobility at chromatographic interfaces, 303 (1995) 17

Uhlemann, E., see Bukowsky, H., 319 (1996) 271

Uhrová, M., see Hamrníková, I., 372 (1998) 257

Uk, S.H., Hye, K.K., Hakhyun, N., Geun, S.C., Kyung-Hee, K. and Ki-Jung, P., Simultaneous determination of alkali and alkaline earth metals by ion chromatography with neutral carrier-based ion-selective electrode detector, 315 (1995) 303

Ukeda, H., Ishii, T., Sawamura, M. and Kusunose, H., Dynamic analysis of the binding process of bovine serum albumin on glutaraldehyde-activated controlled pore glass, 308 (1995)

Ulber, R., Kullick, T., Thordsen, O., Ritzka, A., Irtel, F., Hitzmann, B. and Scheper, T., Gas sensitive field-effect transistors: applications to the monitoring of biotechnological processes, 373 (1998) 253

Ulber, R., see Hitzmann, B., 348 (1997) 135

Ulber, R., see Hitzmann, B., 348 (1997) 161

Ulber, R., see Scheper, T., 400 (1999) 121

Ulber, R., see Sosnitza, P., 368 (1998) 197

Ulrich, N., Speciation of antimony(III), antimony(V) and trimethylstiboxide by ion chromatography with inductively coupled plasma atomic emission spectrometric and mass spectrometric detection, 359 (1998) 245

Umeda, T., see Kawasaki, S., 365 (1998) 205

Umehara, W., see Hirayama, N., 334 (1996) 1

Umemura, T., Kamiya, S. and Haraguchi, H., Characteristic conversion of ion pairs among anions and cations for determination of anions in electrostatic ion chromatography using water as a mobile phase, 379 (1999) 23

Umemura, T., Kamiya, S., Itoh, A., Chiba, K. and Haraguchi, H., Evaluation of sulfobetaine-type zwitterionic stationary phases for ion chromatographic separation using water as a mobile phase, 349 (1997) 231

Umeno, D., Kano, T. and Maeda, M., Affinity adsorption separation of mutagenic molecules by polyacrylamide hydrogels comprising double-stranded DNA, 365 (1998) 101

Umetani, S., see Tsurubou, S., 394 (1999) 317

Umezawa, Y., see Amemiya, S., 341 (1997) 129

Umezawa, Y., see Amemiya, S., 351 (1997) 407

Umezawa, Y., see Eun, H., 375 (1998) 155

Umezawa, Y., see Iitaka, K., 338 (1997) 77

Umezawa, Y., see Nishizawa, S., 358 (1998) 35

Umezawa, Y., see Tani, Y., 395 (1999) 53

Ungaro, R., see Lugtenberg, R.J.W., 310 (1995) 263

Unterreitmaier, E. and Schuster, M., Fluorometric detection of heavy metals with N-methyl-N-9-(methylanthracene)-N'-benzoylthiourea, 309 (1995) 339

Unwin, P.R., see Barker, A.L., 385 (1999) 223

Urban, G., see Dempsey, E., 346 (1997) 341

Ure, A.M., see Anderson, P., 327 (1996) 53

Ure, A.M., see Davidson, C.M., 363 (1998) 45

Ure, A.M., see Sahuquillo, A., 382 (1999) 317

urišić, Z.M., see Milić, N.B., 331 (1996) 23

Urusov, Y., see Petrukhin, O.M., 385 (1999) 125

Urusov, Y.I., see Petrukhin, O.M., 353 (1997) 11

Uryu, Y., see Ohta, K., 359 (1998) 255

Ushio, H., see Nabuchi, Y., 365 (1998) 301

Uskova, M.A., see Papkovsky, D., 374 (1998) 1

Usui, T., see Kinoshita, H., 303 (1995) 301

Utojo, U., see Bakshi, B.R., 384 (1999) 227

Uttenthaler, E., Kößlinger, C. and Drost, S., Quartz crystal biosensor for detection of the African Swine Fever disease, 362 (1998)

Uwamino, Y., see Nakane, K., 369 (1998) 79

Vaarmann, A., see Hödrejärv, H., 396 (1999) 293

Vadász, Z., see Idei, M., 372 (1998) 273

Vadgama, P., see Maines, A., 333 (1996) 223

Vadgama, P., see Rigby, G.P., 385 (1999) 23

Vadgama, P.M., see Kyröläinen, M., 353 (1997) 281

Vadgama, P.M., see Reddy, S.M., 343 (1997) 59

Vadgama, P.M., see Reddy, S.M., 350 (1997) 67

Vadgama, P.M., see Reddy, S.M., 350 (1997) 77

Vadgama, P.M., see Reddy, S.M., 363 (1998) 203 Vaidya, B., Watson, S.W., Coldiron, S.J. and Porter, M.D., Reduc-

tion of chloride ion interference in chemical oxygen demand (COD) determinations using bismuth-based adsorbents, 357

Vaireanu, D.-I., Ruck, N. and Fielden, P.R., Predictive model for coulometric operation in a thin-layer amperometric flow cell, 306 (1995) 115

Valcárcel, M. and Ríos, A., Reliability of analytical information in the XXIst century, 400 (1999) 425

Valcárcel, M., see Agudo, M., 308 (1995) 77

Valcárcel, M., see Albertús, F., 355 (1997) 23

Valcárcel, M., see Arce, L., 359 (1998) 27

Valcárcel, M., see Arce, L., 390 (1999) 39

Valcárcel, M., see Ballesteros, E., 308 (1995) 253

Valcárcel, M., see Ballesteros, E., 315 (1995) 145

Valcárcel, M., see Bauza, R., 391 (1999) 253

Valcárcel, M., see Cosano, J.S., 302 (1995) 269 Valcárcel, M., see Cosano, J.S., 308 (1995) 187

Valcárcel, M., see Gambart, D., 366 (1998) 93

Valcárcel, M., see González, M., 359 (1998) 47

Valcárcel, M., see López Fernández, J.M., 360 (1998) 215

Valcárcel, M., see Luque, M., 395 (1999) 217

Valcárcel, M., see Luque-Pérez, E., 366 (1998) 231

Valcárcel, M., see Luque-Pérez, E., 387 (1999) 155

Valcárcel, M., see Marcos, J., 308 (1995) 152

Valcárcel, M., see Mardones, C., 382 (1999) 23

Valcárcel, M., see Novic, M., 381 (1999) 287

Valcárcel, M., see Rodríguez, J., 375 (1998) 99

Valcárcel, M., see Silva, M.M., 368 (1998) 255

Valcárcel, M., see Vereda, E., 348 (1997) 129

Valcárcel, M., see Yebra, M.C., 308 (1995) 275

Valcárcel, M., see Yebra, M.C., 308 (1995) 357

Valcárcel, M., see Zheng-liang, Z., 318 (1996) 187

Valdés-Hevia y Temprano, M.C., de la Campa, M.R.F. and Sanz-Medel, A., Comparison of plumbane and tetraethyllead for the determination of lead by inductively coupled plasma atomic emission spectrometry, 309 (1995) 369

Valencia, M.C., Boudra, S. and Bosque-Sendra, J.M., Simultaneous determination of aluminium and beryllium at the subnanogram per millilitre level by solid-phase derivative spectrophotometry, 327 (1996) 73

Valentin, J.R., see Kaljurand, M., 324 (1996) 29

Valentini, C., see Lo Coco, F., 306 (1995) 57

Valentín, J., see Dimandja, J.M.D., 371 (1998) 1

Valentová, O., see Sajdok, J., 315 (1995) 109

Valenzuela, M.I.A., see Aaron, J.J., 314 (1995) 45

Valera, F.S., see Wang, J., 337 (1997) 41

Valera, F.S., see Wang, J., 347 (1997) 1

Valero, E., Varón, R. and García-Carmona, F., Mathematical model for the determination of enzyme activity based on enzymatic amplification by substrate cycling, 346 (1997) 215

Valero, F., see Gabriel, D., 359 (1998) 173

Valiente, M., see Anticó, E., 327 (1996) 267

Valiente, M., see Anticó, E., 388 (1999) 327

Valiente, M., see Diez, S., 315 (1995) 339

Valiente, M., see Flor, T., 375 (1998) 127

Valiente, M., see Fontàs, C., 346 (1997) 199

Valiente, M., see Garcia-Valls, R., 387 (1999) 77

Valiente, M., see Lachowicz, E., 327 (1996) 175

Valiente, M., see Palet, C., 343 (1997) 287

Valiente, M., see Rosell, A., 349 (1997) 171

Valiente, M., see Rosell, A., 370 (1998) 141

Valko, M., see Mazúr, M., 333 (1996) 249

Valko, M., see Mazúr, M., 333 (1996) 253

Valko, M., see Mazúr, M., 367 (1998) 233

Valko, M., see Mazúr, M., 373 (1998) 107

Valladon, M., see Marin, B., 342 (1997) 91

Valverde, A., Pihlström, T. and Andersson, A., Analysis of pyraclofos in crops by the Swedish National Food Administration gas chromatographic multiresidue methodology, 338 (1997) 63

Valverde, A., see Fernandez-Alba, A.R., 311 (1995) 371

Vamvakaki, M. and Chaniotakis, N.A., Solid-contact ion-selective electrode with stable internal electrode, 320 (1996) 53

Van Aelst, J., see Yperman, J., 395 (1999) 143

van Akker, E.B., Bos, M. and van der Linden, W.E., Convection and diffusion in a micro-flow injection system, 373 (1998) 227

van Akker, E.B., Bos, M. and van der Linden, W.E., Continuous, pulsed and stopped flow in a μ-flow injection system (numerical vs experimental), 378 (1999) 111

van Bennekom, W.P., see Rongen, H.A.H., 306 (1995) 333

van Bennekom, W.P., see van Os, P.J.H.J., 305 (1995) 18

van Bennekom, W.P., see van Os, P.J.H.J., 335 (1996) 209

Van Daele, W., see Ouyang, J., 386 (1999) 257

van Dam, J.C., see Geerdink, M.J., 315 (1995) 159

van de Merbel, N.C., Zuur, P., Frijlink, M., Holthuis, J.J.M., Lingeman, H. and Brinkman, U.A.T., Automated monitoring of amino acids during fermentation processes using on-line ultrafiltration and column liquid chromatography: application to fermentation medium improvement, 303 (1995) 175

van de Nesse, R.J., van der Wegen, R.J., Gooijer, C., Brinkman, U.A.T. and Velthorst, N.H., Simultaneous and consecutive twophoton excited fluorescence detection in conventional-size liquid chromatography, 309 (1995) 135

van de Wiel, H.J., see van der Voet, H., 391 (1999) 159

van den Berg, C.M., see Colombo, C., 377 (1998) 229

van den Berg, C.M., see Fischer, E., 385 (1999) 273

van den Berg, C.M.G., see Colombo, C., 337 (1997) 29

van den Berg, C.M.G., see Colombo, C., 346 (1997) 101

Van den Broeck, K., Vandecasteele, C. and Geuns, J.M., Speciation by liquid chromatography-inductively coupled plasma-mass spectrometry of arsenic in mung bean seedlings used as a bioindicator for the arsenic contamination., 361 (1998) 101

van den Broek, W., see Wienke, D., 317 (1995) 1

van den Hoop, M.A., see Benegas, J.C., 369 (1998) 109

van den Hoop, M.A.G.T., Benegas, J.C. and van Leeuwen, H.P.,

Stripping voltammetry of heavy metal/polyelectrolyte complexes Part 2. Analysis in terms of polyelectrolyte theory, 317 (1995) 327

Van den Rul, H., see Yperman, J., 395 (1999) 143

van der Horst, H.M., see Rongen, H.A.H., 306 (1995) 333

van der Knaap, H.C.M., see Nijhuis, A., 391 (1999) 187

van der Lelie, D., see Corbisier, P., 387 (1999) 235

van der Linden, W.E., see Bos, M., 332 (1996) 201

van der Linden, W.E., see Hartnett, M.K., 316 (1995) 347

van der Linden, W.E., see Hulsman, M., 324 (1996) 13

van der Linden, W.E., see Hulsman, M., 346 (1997) 351

van der Linden, W.E., see Pałys, M.J., 337 (1997) 5

van der Linden, W.E., see van Akker, E.B., 373 (1998) 227

van der Linden, W.E., see van Akker, E.B., 378 (1999) 111

van der Linden, W.E., see Wehrens, R., 334 (1996) 93

van der Maas, J.H., see Luinge, H.J., 348 (1997) 471

van der Meide, P.H., see Rongen, H.A.H., 306 (1995) 333

van der Plicht, J., see le Clercq, M., 370 (1998) 19

van der Schoot, B.H., see Guenat, O.T., 361 (1998) 261

van der Velde, E.G., see Hoogerbrugge, R., 388 (1999) 119

van der Voet, H., (Hans) van Rhijn, J.A. and van de Wiel, H.J., Interlaboratory, time, and fitness-for-purpose aspects of effective validation, 391 (1999) 159

van der Wegen, R.J., see van de Nesse, R.J., 309 (1995) 135

Van Der Weken, G., see Ouyang, J., 386 (1999) 257

Van der Weken, G., see Overbeke, A.V., 346 (1997) 183

Van der Weken, G., see Zhang, X.R., 303 (1995) 121

Van der Weken, G., see Zhang, X.R., 303 (1995) 137

Van Der Weken, G., see Zhang, Z., 347 (1997) 325

van Elteren, J.T., see Harms, A.V., 394 (1999) 271

van Elteren, J.T., see Šlejkovec, Z., 358 (1998) 51 van Elteren, J.T., see Šlejkovec, Z., 380 (1999) 63

Van Emon, J.M. and Gerlach, C.L., Expanding the role of environmental immunoassays: technical capabilities, regulatory issues, and communication vehicles, 376 (1998) 55

Van Emon, J.M. and Queen, B.J., Preface, 399 (1999) 1

Van Emon, J.M., see Chuang, J.C., 376 (1998) 67

Van Emon, J.M., see Chuang, J.C., 399 (1999) 135

van Erk, M.S., see Lepri, L., 317 (1995) 149

Van Es, R.M., see Setford, S.J., 398 (1999) 13

Van Grieken, R., see Ro, C.U., 389 (1999) 151

Van Grieken, R., see Treiger, B., 317 (1995) 33

van Kampen, A.H.C., Ramadan, z., Mulholland, M., Hibbert, D.B. and Buydens, L.M.C., Learning classification rules from an ion chromatography database using a genetic based classifier system, 344 (1997) 1

van Leeuwen, H.P., see van den Hoop, M.A.G.T., 317 (1995) 327

Van Loon, J.C., see Barefoot, R.R., 334 (1996) 5

Van Loon, L.R., see Glaus, M.A., 303 (1995) 321

van Loon, L.R., see Glaus, M.A., 398 (1999) 111

Van Malderen, H., see Treiger, B., 317 (1995) 33 Van Mol, W., see Ma, R., 309 (1995) 395

van Nierop, T., see Rongen, H.A.H., 306 (1995) 333

van Os, P.J.H.J., Bult, A. and van Bennekom, W.P., A glucose sensor, interference free for ascorbic acid, 305 (1995) 18

van Os, P.J.H.J., Bult, A., Koopal, C.G.J. and van Bennekom, W.P., Glucose detection at bare and sputtered platinum electrodes coated with polypyrrole and glucose oxidase, 335 (1996) 209

Van Overbeke, A., Baeyens, W. and Dewaele, C., Enantiomeric separation of six 2-arylpropionic acids after pre-column derivatization with various amines and alcohols on a cellulose-based chiral stationary phase, 321 (1996) 245

Van Peteghem, C., see Croubels, S., 303 (1995) 11

Van Poucke, L.C., see De Backer, A., 334 (1996) 103

Van Poucke, L.C., see Yperman, J., 395 (1999) 143

van Putten, A.B., Spitzenberger, F., Kretzmer, G., Hitzmann, B. and Schügerl, K., On-line and off-line monitoring of the production of alkaline serine protease by Bacillus licheniformis, 317 (1995) 247

van Sprang, H.A., see Dane, A.D., 351 (1997) 359

van Staden, J.F. and Britz, H.E., Flow injection spectrophotometric determination of total carbonyls in hydrocarbons by reaction with vanillin, 351 (1997) 281

van Staden, J.F. and Hattingh, C.J., Preconcentration of an analyte dialysate in a flow-injection system, 308 (1995) 214

van Staden, J.F. and Hattingh, C.J., Study of mass transfer in on-line analytical parallel-plate dialysers in series in flow injection systems, 308 (1995) 222

van Staden, J.F. and Kluever, L.G., Determination of manganese in natural water and effluent streams using a solid-phase lead(IV) dioxide reactor in a flow-injection system, 350 (1997) 15

van Staden, J.F. and Kluever, L.G., Determination of sulphide in effluent streams using a solid-phase lead(II) chromate reactor incorporated into a flow-injection system, 369 (1998) 157

van Staden, J.F. and Matoetoe, M.C., Simultaneous determination of traces of iron(II) and iron(III) using differential pulse anodic stripping voltammetry in a flow-through configuration on a glassy carbon electrode, 376 (1998) 325

van Staden, J.F. and McCormack, T., Sequential-injection spectrophotometric determination of amino acids using 2,4,6-trinitrobenzenesulphonic acid, 369 (1998) 163

van Staden, J.F. and Taljaard, R.E., Determination of calcium in water, urine and pharmaceutical samples by sequential injection analysis, 323 (1996) 75

van Staden, J.F. and Taljaard, R.E., Determination of sulphate in natural waters and industrial effluents by sequential injection analysis, 331 (1996) 271

van Staden, J.F. and Taljaard, R.E., Determination of ammonia in water and industrial effluent streams with the indophenol blue method using sequential injection analysis, 344 (1997) 281

van Staden, J.F., du Plessis, H. and Taljaard, R.E., Determination of iron(III) in pharmaceutical samples using dialysis in a sequential injection analysis system, 357 (1997) 141

van Staden, J.F., du Plessis, H., Linsky, S.M., Taljaard, R.E. and Kremer, B., Influence of different volume ratios on the isodispersion point in sequential injection analysis, 354 (1997) 59

van Staden, J.F., Saling, C., Malan, D. and Taljaard, R.E., Non-linearity with metal-metal ligand complex reactions in flow injection systems. Metal-thiocyanate reactions, 350 (1997) 37

van Staden, J.F., see McCormack, T., 367 (1998) 111

van Staden, J.F., see Taylor, M.J.C., 307 (1995) 1

van Staden, J.F., see Taylor, M.J.C., 329 (1996) 275

van Tonder, N., Denner, B.F. and Chang, M.S., Comparison of CIE chromaticity values, 380 (1999) 285

Van Wie, B.J., see Parab, S., 359 (1998) 157

Vandecasteele, C., see Van den Broeck, K., 361 (1998) 101

Vandeginste, B.G.M., see Nijhuis, A., 391 (1999) 187

Vander Donckt, E., see Herne, R., 364 (1998) 131

Vander Putten, E., Dehairs, F., André, L. and Baeyens, W., Quantitative in situ microanalysis of minor and trace elements in biogenic calcite using infrared laser ablation – inductively coupled plasma mass spectrometry: a critical evaluation, 378 (1999) 261

Vanhaecke, F., Gelaude, I., Moens, L. and Dams, R., Solid sampling electrothermal vaporization inductively coupled plasma mass spectrometry for the direct determination of Hg in sludge samples, 383 (1999) 253

Vanhaecke, F., see Hu, Y., 355 (1997) 105

Vanhaecke, F., see Hu, Y., 373 (1998) 95

Vanhentenrijk, S., see Hoenig, M., 358 (1998) 85

Vanhoe, H., see Parent, M., 320 (1996) 1

Vaničková, M., see Labuda, J., 305 (1995) 42

Vankeerberghen, P., see Hartmann, C., 344 (1997) 17

Vaňková, Z., see Mesároš, S., 358 (1998) 27

Vanni, A., see Giraudi, G., 378 (1999) 225

Vanni, A., see Giraudi, G., 392 (1999) 85

Vanslyke, S.J., see Wentzell, P.D., 307 (1995) 459

Väre, L., see Kulmala, S., 386 (1999) 1

Väre, L., see Kulmala, S., 398 (1999) 41

Varimezova, B., see Vassileva, E., 336 (1996) 141

Varmuza, K., see Penchev, P.N., 388 (1999) 145

Varón, R., see Valero, E., 346 (1997) 215

Varsamis, J., see Ochsenkühn-Petropulu, M., 337 (1997) 323

Vasconcelos, M. Teresa S.D. and Almeida, C. Marisa R., Electrochemical study of proton ionisation, copper(II) complexation and surfactant properties of piperazine-N-N'-bis[2-hydroxypropanesulfonic acid] pH buffer. Comparison with other N-substituted aminosulfonic acids pH buffers, 369 (1998) 115

Vasconcelos, M.T., Leal, M.F.C. and Soares, H.M.V.M., Influence of the ratio copper(II) to ligand concentrations and the nature of entering and leaving ligands on the lability of copper(II) complexes, 330 (1996) 273

Vasconcelos, M.T.S.D. and Azenha, M.A.O., Additional evidence of the operational character of the lability of complexes of copper(II) with simple organic ligands, 333 (1996) 97

Vasconcelos, M.T.S.D. and Leal, M.F.C., Speciation of Cu, Pb, Cd and Hg in waters of the Oporto coast in Portugal, using preconcentration in a Chelamine resin column, 353 (1997) 189

Vasconcelos, M.T.S.D., see Almeida, C.M.R., 396 (1999) 45

Vasconcelos, M.T.S.D., see Soares, H.M.V.M., 303 (1995) 255

Vasconcelos, M.T.S.D., see Soares, H.M.V.M., 314 (1995) 241

Vasconcelos, M.Teresa S.D., see Soares, H.M., 394 (1999) 325

Vasiliev, A., see Moritz, W., 393 (1999) 49

Vaškelis, A. and Jusys, Z., Differential electrochemical mass spectrometry study of the electroless copper plating process using a thin-layer flow-through cell, 305 (1995) 227 Vasko, M., see Hoffmann, R., 352 (1997) 319

Vassileva, E., see Hoenig, M., 358 (1998) 85

Vassileva, E., Varimezova, B. and Hadjiivanov, K., Column solidphase extraction of heavy metal ions on a high surface area CeO<sub>2</sub> as a preconcentration method for trace determination, 336 (1996) 141

Vaughan, D.J., see McDonald, I., 333 (1996) 41

Vaz, J.M., see Lichtig, J., 332 (1996) 161

Vázquez, E., see Pastor, A., 344 (1997) 241

Vázquez, F.J.L., see López-Martínez, L., 340 (1997) 241

Veber, M., see Pompe, M., 348 (1997) 215

Večeřa, Z., see Mikuška, P., 316 (1995) 261

Večeřa, Z., see Mikuška, P., 374 (1998) 297

Vedel, G.R., see Lundebye, A.-K., 311 (1995) 109

Vedrina-Dragojević, I., Dragojević, D. and Čadež, S., Spectrofluorimetric method for the determination of the total mercury content in sediment and soil, 355 (1997) 151

Veeraraghavan, R., see Manchanda, V.K., 320 (1996) 151

Vega, M., Pardo, R., Herguedas, M.M., Barrado, E. and Castrillejo, Y., Pseudopolarographic determination of stability constants of labile zinc complexes in fresh water, 310 (1995) 131

Veilla, C., see Abdelghani, A., 337 (1997) 225

Veillas, C., see Ronot-Trioli, C., 319 (1996) 121

Veiopoulou, C.J., Lianidou, E.S., Ioannou, P.C. and Efstathiou, C.E., Comparative study of fluorescent ternary terbium complexes. Application in enzyme amplified fluorimetric immunoassay for α-fetoprotein, 335 (1996) 177

Velasco-Arjona, A. and de Castro, M.D.L., A robotic-flow injection approach to the fully automated determination of starch in food, 333 (1996) 205

Velasco-arjona, A., see Luque de Castro, M.D., 384 (1999) 117

Velikorodny, A.A., see Zolotov, Y.A., 308 (1995) 378

Velthorst, N.H., see de Beer, T., 330 (1996) 189

Velthorst, N.H., see de Beer, T., 390 (1999) 55

Velthorst, N.H., see Kok, S.J., 303 (1995) 3

Velthorst, N.H., see Kok, S.J., 360 (1998) 109

Velthorst, N.H., see Kok, S.J., 389 (1999) 77

Velthorst, N.H., see Kozin, I.S., 333 (1996) 193

Velthorst, N.H., see Kozin, I.S., 354 (1997) 181

Velthorst, N.H., see Mank, A.J.G., 315 (1995) 209

Velthorst, N.H., see Mank, A.J.G., 323 (1996) 1

Velthorst, N.H., see Nuijens, M.J., 311 (1995) 47

Velthorst, N.H., see Somsen, G.W., 349 (1997) 189

Velthorst, N.H., see van de Nesse, R.J., 309 (1995) 135

Venema, K., see Tiessen, R.G., 379 (1999) 327

Verbeeck, R.M.H., see De Maeyer, E.A.P., 358 (1998) 79

Verberckmoes, A.A., Weckhuysen, B.M., Schoonheydt, R.A., Ooms, K. and Langhans, I., Chemometric analysis of diffuse reflectance spectra of Co<sup>2+</sup>-exchanged zeolites: spectroscopic fingerprinting of coordination environments, 348 (1997) 267

Verdasco, G., Martín, M.A., del Castillo, B., López-Alvarado, P. and Menéndez, J.C., Solvent effects on the fluorescent emission of some new benzimidazole derivatives, 303 (1995) 73

Verdú-Andrés, J., Massart, D.L., Menardo, C. and Sterna, C., Correction of non-linearities in spectroscopic multivariate calibration by using transformed original variables and PLS regression, 349 (1997) 271 Verdú-Andrés, J., Massart, D.L., Menardo, C. and Sterna, C., Correction of non-linearities in spectroscopic multivariate calibration by using transformed original variables. Part II. Application to principal component regression, 389 (1999) 115

Verdú-Andrés, J., see Campins-Falcó, P., 302 (1995) 323

Verdú-Andrés, J., see Campins-Falcó, P., 315 (1995) 267

Verdú-Andrés, J., see Campins-Falcó, P., 348 (1997) 39

Verdura-Constenla, E.M., see Bermejo-Barrera, P., 398 (1999) 263

Vereda, E., Ríos, A. and Valcárcel, M., Quality compromises incorporated in simplex optimisation of a flow injection system, 348 (1997) 129

Verpoorte, E.M.J., see Dempsey, E., 346 (1997) 341

Verreyt, G., see Poels, I., 370 (1998) 105

Verrill, J.F., see Clarke, P.J., 380 (1999) 277

Verrill, J.F., see Hanson, A.R., 380 (1999) 363

Vertlib, M.G., see Medyantseva, E.P., 347 (1997) 71

Veselova, I.A. and N. Shekhovtsova, T., Visual determination of mercury(II) using horseradish peroxidase immobilized on polyurethane foam, 392 (1999) 151

Vetter, J., see Thust, M., 323 (1996) 115

Vicente, C., see Estrella Legaz, M., 372 (1998) 201

Vicente, F., see Arenaza, M.J., 305 (1995) 91

Vicente, I.S., see Pinillos, S.C., 318 (1996) 377

Vicente, J., see Hernandez, L., 356 (1997) 239

Vicente, O., Masi, A., Martinez, L., Olsina, R. and Marchevsky, E., On-line preconcentration system for lanthanum determination in urine using FI-ICP-AES, 366 (1998) 201

Vicente-Beckett, V., see Bond, A.M., 345 (1997) 67

Vicente-Pérez, S., see Martinez-Izquierdo, M.E., 325 (1996) 81

Vickers, W., see Buttner, W.J., 341 (1997) 63

Vickroy, T.W., see Lada, M.W., 307 (1995) 217

Vidal, A., see Badr, I.H., 388 (1999) 63

Vidal, J.C., García, E. and Castillo, J.R., In situ preparation of a cholesterol biosensor: entrapment of cholesterol oxidase in an overoxidized polypyrrole film electrodeposited in a flow system. Determination of total cholesterol in serum, 385 (1999) 213

Vidal, J.C., Méndez, S. and Castillo, J.R., Electropolymerization of pyrrole and phenylenediamine over an organic conducting salt based amperometric sensor of increased selectivity for glucose determination, 385 (1999) 203

Vidal, J.L.M., see García, M.D.G., 348 (1997) 177

Vidal, M., see Roig, M., 379 (1999) 121

Vidal-Madjar, C., see Pantazaki, A., 383 (1999) 137

Vieillescazes, C., Larice, J.-L. and Coen, S., Ancient resinous substances characterisation, an approach by principal component analysis, 317 (1995) 65

Vieira, I.d.C. and Fatibello-Filho, O., L-Cysteine determination using a polyphenol oxidase-based inhibition flow injection procedure. 399 (1999) 287

Vieira, I.d.C., Fatibello-Filho, O. and Angnes, L., Zucchini crude extract-palladium-modified carbon paste electrode for the determination of hydroquinone in photographic developers, 398 (1999) 145

Vieira, J.A., Raimundo, Jr., L.M., Reis, B.F., Zagatto, E.A. and Lima, J.L., Sampling strategies in sequential injection analysis: Exploiting the monosegmented-flow approach, 366 (1998) 257 Vieira, J.A., Reis, B.F., Kronka, E.A., Paim, A.P.S. and Giné, M.F., Multicommutation in flow analysis. Part 6. Binary sampling for wide concentration range turbidimetric determination of sulphate in plant digests, 366 (1998) 251

Vierle, O., Launhardt, T., Strehler, A., Dumler-Gradl, R., Thoma, H. and Schreiner, M., Investigation of organic pollutants from house heating systems using biogenic fuels and correlations with other exhaust gas components, 393 (1999) 131

Vignati, M., see Gianazza, E., 372 (1998) 99

Vijayakumar, A.R., Csöregi, E., Heller, A. and Gorton, L., Alcohol biosensors based on coupled oxidase-peroxidase systems, 327 (1996) 223

Vijayalekshmy, B., see Prasada Rao, T., 369 (1998) 69

Viksna, A. and Lindgren, E.S., Determination of lead and cadmium in whole blood of mothers and their babies, 353 (1997) 307

Vilanova, X., see Brezmes, J., 348 (1997) 503

Vilchez, J.L., see Capitán-Vallvey, L.F., 302 (1995) 193

Vilchez, J.L., see del Olmo, M., 335 (1996) 23

Vilchez, J.L., see del Olmo, M., 346 (1997) 87

Villadsen, J., see Rong, W.M., 312 (1995) 149

Villadsen, J., see Rong, W.M., 320 (1996) 199

Villahoz, B., see Arcos, M.J., 339 (1997) 63

Villanueva Camañas, R.M., see Torres Cartas, S., 302 (1995) 163

Villanueva-Camañas, R.M., see Noguera-Ortí, J.F., 387 (1999) 127 Villanueva-Camañas, R.M., see Torres-Cartas, S., 333 (1996) 31

Villaseñor Llerena, M.J., see Berzas, J.J., 391 (1999) 353

Villegas, M.G.G., see Bedioui, F., 341 (1997) 177

Villegas, M.M., see Neal, S.L., 307 (1995) 419

Viñas, P., Campillo, N., García, I.L. and Córdoba, M.H., Speciation of vitamin B<sub>12</sub> analogues by liquid chromatography with flame atomic absorption spectrometric detection, 318 (1996) 319

Viñas, P., Campillo, N., López-García, I. and Hernández-Córdoba, M., Electrothermal atomic absorption spectrometric determination of molybdenum, aluminium, chromium and manganese in milk, 356 (1997) 267

Viñas, P., see Campillo, N., 390 (1999) 207

Viñas, P., see García, I.L., 308 (1995) 67

Viñas, P., see García, I.L., 308 (1995) 85

Viñas, P., see López-García, I., 327 (1996) 83

Viré, J.C., see Gerlache, M., 349 (1997) 59

Virtanen, J.A., see Stiger, R.M., 307 (1995) 377

Virtanen, S.A., see Stiger, R.M., 307 (1995) 377
Virtanen, V. and Bordin, G., Isoform separation of metallothioneins by capillary zone electrophoresis with Tris-tricine buffer in the presence or absence of methanol, 372 (1998) 231

Visser, E., see Garland, M., 351 (1997) 337

Visser, T., see Luinge, H.J., 345 (1997) 173

Visser, T., Vredenbregt, M.J., ten Hove, G.J., de Jong, A.P.J.M. and Somsen, G.W., Gradient elution liquid chromatography-infrared spectrometry at µg 1<sup>-1</sup> level using capillary column switching and addition of a make-up liquid. A preliminary study, 342 (1997) 151

Visy, C., see Dobay, R., 385 (1999) 187

Vizioli, N., see Mardones, C., 382 (1999) 23

Vlădescu, L., see Moldovan, Z., 338 (1997) 231

Vladimirova, L., see Chavdarova, R., 353 (1997) 325

Vlahov, G., see Shaw, A.D., 348 (1997) 357

Vlasov, Y., see Legin, A., 385 (1999) 131

Vlasov, Y.G., see Schwake, A., 393 (1999) 19

Vlessidis, A.G., see Evmiridis, N.P., 398 (1999) 191

Vobecký, M., Jakůbek, J., Granja Bustamante, C., Koníček, J., Pluhař, J., Pospíšil, S. and Rubáček, L., Multielement instrumental activation analysis based on gamma–gamma coincidence spectroscopy, 386 (1999) 181

Vo-Dinh, T., see Campiglia, A.D., 346 (1997) 361

Vo-Dinh, T., see Campiglia, A.D., 351 (1997) 229

Vo-Dinh, T., see Campiglia, A.D., 372 (1998) 349

Vo-Dinh, T., see Pal, T., 368 (1998) 21

Vo-Dinh, T., see Stevenson, C.L., 303 (1995) 247

Vo-Dinh1, T., see Stokes, D.L., 399 (1999) 201

Vo-Dinh, T., see Stokes, D.L., 399 (1999) 265

Vogt, W., see Heinemann, G., 386 (1999) 145 Vojvodić, V., see Gašparović, B., 338 (1997) 179

Volf, R., Shishkanova, T.V., Matějka, P., Hamplová, M. and Král, V., Potentiometric anion response of poly(5,15-bis(2-aminophenyl)-

porphyrin) electropolymerized electrodes, 381 (1999) 197
Volotovsky, V. and Kim, N., Ascorbic acid determination with an ion-sensitive field effect transistor-based peroxidase biosensor, 359 (1998) 143

Volotovsky, V., Soldatkin, A.P., Shul'ga, A.A., Rossokhaty, V.K., Strikha, V.I. and El'skaya, A.V., Glucose-sensitive ion-sensitive field-effect transistor-based biosensor with additional positively charged membrane Dynamic range extension and reduction of buffer concentration influence on the sensor response, 322 (1996)

von Bohlen, A., see Günther, K., 309 (1995) 327

von Wandruszka, R., see Yates III, L.M., 356 (1997) 295

Vorlop, K.-D., see Renneberg, R., 325 (1996) 161

Vos, J.G., see Doherty, A.P., 319 (1996) 111

Vos, J.G., see Doherty, A.P., 344 (1997) 159

Vos, J.G., see Regan, F., 334 (1996) 85
Vračko, M., Novič, M. and Zupan, J., Study of structure-toxicity relationship by a counterpropagation neural network, 384 (1999)

Vrbová, E., see Chudobová, I., 319 (1996) 103

Vredenbregt, M.J., see Visser, T., 342 (1997) 151

Vreeken, R.J. and Houriet, R., Membrane interface for the direct coupling of pyrolysis and mass spectrometry, 313 (1995) 237

Vrielink, J.A.M., see Bos, M., 373 (1998) 291

Vukašinović, M., see Mihajlović, R., 318 (1996) 287

Vyazovkin, S. and Sbirrazzuoli, N., Confidence intervals for the activation energy estimated by few experiments, 355 (1997) 175

Vytras, K., see Pravda, M., 304 (1995) 127

# W

Waczuliková, I., see Šikurová, L., 303 (1995) 79 Wada, H., see Higashiura, M., 304 (1995) 317 Wada, H., see Kamei, T., 365 (1998) 259 Wada, H., see Yuchi, A., 387 (1999) 189

Wada, H., see Yuchi, A., 388 (1999) 201

Wada, Y., see Kitade, T., 367 (1998) 33

Wade, D.A., Torres, P.A. and Tucker, S.A., Spectrochemical investigations in dendritic media: evaluation of nitromethane as a selective fluorescence quenching agent in aqueous carboxylateterminated polyamido amine (PAMAM) dendrimers, 397 (1999) 17

Wadsworth, A.H., see Wring, S.A., 334 (1996) 225

Wagatsuma, K. and Hirokawa, K., Effect of oxygen addition to an argon glow-discharge plasma source in atomic emission spectrometry, 306 (1995) 193

Wagatsuma, K., Hirokawa, K. and Yamashita, N., Detection of fluorine emission lines from Grimm-type glow-discharge plasmas - use of neon as the plasma gas, 324 (1996) 147

Wagatsuma, K., Kuwabara, T. and Hirokawa, K., Selection of selfabsorption free analytical lines of aluminum in glow discharge optical emission spectrometry, 343 (1997) 267

Wágner, L., see Csapó, J., 339 (1997) 99

Wagner, M., see Lubert, K.-H., 336 (1996) 77

Wagner, W., see Sander, S., 305 (1995) 154

Wagner, W., see Sander, S., 349 (1997) 93

Wahbi, A.-A.M., see Wintersteiger, R., 306 (1995) 273

Wai, C.M., see Brauer, R.D., 349 (1997) 239

Wakabayashi, M., see Aoki, T., 308 (1995) 308

Waki, K., see Matsumoto, K., 380 (1999) 1

Wakida, S.i., see Fukushi, K., 383 (1999) 205

Wako, T., Fukuda, M., Furushima-Shimogawara, R., Belyaev, N.D., Turner, B.M. and Fukui, K., Comparative analysis of topographic distribution of acetylated histone H4 by using confocal microscopy and a deconvolution system, 365 (1998) 9

Walcarius, A. and Bessière, J., In situ monitoring of copper(II) fixation on silica gel in aqueous ammonia by means of dielectric measurements and quantitative analysis of adsorbed species, 361

Walcarius, A., Zeolite-modified electrodes in electroanalytical chemistry, 384 (1999) 1

Walcarius, A., Factors affecting the analytical applications of zeolite modified electrodes: indirect detection of nonelectroactive cations, 388 (1999) 79

Walcarius, A., Barbaise, T. and Bessiere, J., Factors affecting the analytical applications of zeolite-modified electrodes Preconcentration of electroactive species, 340 (1997) 61

Walcarius, A., Despas, C. and Bessiere, J., Selective monitoring of Cu<sup>(II)</sup> species using a silica modified carbon paste electrode, 385 (1999)79

Wałcerz, I., Głąb, S. and Koncki, R., Potentiometric enzyme electrode in a flow injection system for the determination of urea in human serum samples, 369 (1998) 129

Wałcerz, I., Koncki, R., Leszczyńska, E. and Glab, S., Enzyme biosensors for urea determination based on an ionophore free pH membrane electrode, 315 (1995) 289

Walcerz, I., see Koncki, R., 333 (1996) 215

Walcerz, M., see Bulska, E., 357 (1997) 133

Walczak, B. and Massart, D.L., The Radial Basis Functions - Partial Least Squares approach as a flexible non-linear regression technique, 331 (1996) 177

Walczak, B. and Massart, D.L., Application of Radial Basis Functions - Partial Least Squares to non-linear pattern recognition problems: diagnosis of process faults, 331 (1996) 187

Walczak, B., Neural networks with robust backpropagation learning algorithm, 322 (1996) 21

Walczak, B., see Jouan-Rimbaud, D., 304 (1995) 285

Walczak, B., see Wu, W., 315 (1995) 243

Walczak, B., see Wu, W., 329 (1996) 257

Walczak, B., see Wu, W., 331 (1996) 75

Walker, D.S., see Coffey, C., 395 (1999) 335

Walker, D.S., see Gemperline, P.J., 345 (1997) 155

Wallace, G.G., see Adeloju, S.B., 323 (1996) 107

Wallace, G.G., see Adeloju, S.B., 332 (1996) 145

Wallace, G.G., see Adeloju, S.B., 341 (1997) 155

Wallace, G.G., see Akhtar, P., 339 (1997) 201

Wallace, G.G., see Akhtar, P., 339 (1997) 211

Wallace, G.G., see Akhtar, P., 341 (1997) 141

Wallace, G.G., see Barisci, J.N., 310 (1995) 79

Wallace, G.G., see Barisci, J.N., 371 (1998) 39

Wallace, G.G., see Sadik, O.A., 302 (1995) 131

Wallace, G.G., see W., L., 315 (1995) 27

Wallach, J., see Louis, D., 345 (1997) 219

Wallach, J., see Tournier, E.J.M., 361 (1998) 33

Wallach, J.M., see Rival, S., 312 (1995) 213

Wallenborg, S.R., Markides, K.E. and Nyholm, L., A microelectrochemical detector for use at low linear velocities in capillary column systems, 344 (1997) 77

Wallgren, K., see Sotiropoulos, S., 388 (1999) 51

Walmsley, A.D., Improved variable selection procedure for multivariate linear regression, 354 (1997) 225

Walmsley, A.D., see Donachie, A., 378 (1999) 235

Walmsley, A.D., see Haines, E.S., 337 (1997) 191

Walmsley, A.D., see Haswell, S.J., 400 (1999) 399

Walsh, J.E., see Regan, F., 334 (1996) 85

Walsh, M.K., see Bell, S.E., 303 (1995) 163

Walt, D.R., see Ferguson, J.A., 340 (1997) 123

Walt, D.R., see Gabor, G., 313 (1995) 131

Wang, A., Gong, F., Li, H. and Fang, Y., Separation and determination of the active ingredients in tablets of composite sulphonamides by capillary zone electrophoresis with amperometric detection, 386 (1999) 265

Wang, A., Zhang, L. and Fang, Y., Determination and separation of chloramphenicol and its hydrolysate in eye-drops by capillary zone electrophoresis with amperometric detection, 394 (1999)

Wang, C., Zhang, H., Sun, Y. and Li, H., Electrochemical behavior and determination of gold at chemically modified carbon paste electrode by the ethylenediamine fixed humic acid preparation, 361 (1998) 133

Wang, C.F., Chang, C.Y., Chin, C.J. and Men, L.C., Determination of arsenic and vanadium in airborne related reference materials by inductively coupled plasma-mass spectrometry, 392 (1999) 299

Wang, C.F., Chin, C.J., Luo, S.K. and Men, L.C., Determination of chromium in airborne particulate matter by high resolution and laser ablation inductively coupled plasma mass spectrometry, 389 (1999) 257

Wang, C.F., Jeng, S.L., Lin, C.C. and Chiang, P.C., Preparation of airborne particulate standards on PTFE-membrane filter for laser ablation inductively coupled plasma mass spectrometry, 368 (1998) 11

Wang, C.-F., Tu, F.-H. and Jeng, S.-L., Determination of silicon in airborne particulate matter by UV-visible spectrophotometry, 342 (1997) 239

Wang, D.Y., see Zhang, H.M., 361 (1998) 9

Wang, D.-Y., see Zhao, Y.-B., 353 (1997) 329

Wang, E., Chen, H., Patel, H., Sadaragani, I. and Romero, C., Influence of nonionic surfactants on the optical response of cation selective membrane films, 397 (1999) 287

Wang, E., see Li, T., 360 (1998) 53

Wang, E., see Liu, Z., 338 (1997) 57

Wang, E., Zhu, L., Ma, L. and Patel, H., Optical sensors for sodium, potassium and ammonium ions based on lipophilic fluorescein anionic dye and neutral carriers, 357 (1997) 85

Wang, F.R., see Fang, Q., 390 (1999) 27

Wang, G.Y., see Fuh, M.R.S., 371 (1998) 89

Wang, H., Ling Gu, J., Fang Hu, H., Ji Dai, R., Hui Ding, T. and Nong Fu, R., Study on the chiral separation of basic drugs by capillary zone electrophoresis using β-CD and derivatized β-CDs as chiral selectors, 359 (1998) 39

Wang, H., see Seitz, W. Rudolf, 400 (1999) 55

Wang, H., see Zhang, H.S., 380 (1999) 101

Wang, J. and Qiang, C., Remote electrochemical biosensor for field monitoring of phenolic compounds, 312 (1995) 39

Wang, J., Sol-gel materials for electrochemical biosensors, 399 (1999) 21

Wang, J., Bhada, R.K., Lu, J. and MacDonald, D., Remote electrochemical sensor for monitoring TNT in natural waters, 361 (1998) 85

Wang, J., Foster, N., Armalis, S., Larson, D., Zirino, A. and Olsen, K., Remote stripping electrode for in situ monitoring of labile copper in the marine environment, 310 (1995) 223

Wang, J., Grant, D.H., Ozsoz, M., Cai, X., Tian, B. and Fernandes, J.R., Adsorptive potentiometric stripping analysis of nucleic acids at mercury electrodes, 349 (1997) 77

Wang, J., Gründler, P., Flechsig, G.U., Jasinski, M., Lu, J., Wang, J., Zhao, Z. and Tian, B., Hot-wire stripping potentiometric measurements of trace mercury, 396 (1999) 33

Wang, J., Jianman, L. and Farias, P.A.M., Remote electrochemical monitoring of trace silver, 318 (1996) 151

Wang, J., Liang, C. and Chicharro, M., Trace measurements of nucleic acids using flow injection amperometry, 319 (1996) 347

Wang, J., Lu, F., Angnes, L., Liu, J., Sakslund, H., Chen, Q., Pedrero, M., Chen, L. and Hammerich, O., Remarkably selective metallized-carbon amperometric biosensors, 305 (1995) 3

Wang, J., Lu, J., Wang, J., Luo, D. and Tian, B., Simultaneous measurements of trace chromium and uranium using mixed ligand adsorptive stripping analysis, 354 (1997) 275

Wang, J., Pamidi, P.V. and Jiang, M., Low-potential stable detection of β-NADH at sol-gel derived carbon composite electrodes, 360 (1998) 171

Wang, J., Pamidi, P.V.A. and Cepria, G., Electrocatalysis and amperometric detection of aliphatic aldehydes at platinum-palladium alloy coated glassy carbon electrode, 330 (1996) 151 Wang, J., Qiang, C. and Pedrero, M., Highly selective biosensing of lactate at lactate oxidase containing rhodium-dispersed carbon paste electrodes, 304 (1995) 41

Wang, J., Rivas, G., Cai, X., Dontha, N., Shiraishi, H., Luo, D. and Valera, F.S., Sequence-specific electrochemical biosensing of M. tuberculosis DNA, 337 (1997) 41

Wang, J., Rivas, G., Cai, X., Palecek, E., Nielsen, P., Shiraishi, H., Dontha, N., Luo, D., Parrado, C., Chicharro, M., Farias, P.A.M., Valera, F.S., Grant, D.H., Ozsoz, M. and Flair, M.N., DNA electrochemical biosensors for environmental monitoring. A review, 347 (1997) 1

Wang, J., Rivas, G., Cai, X., Shiraishi, H., Farias, P.A.M., Dontha, N. and Luo, D., Accumulation and trace measurements of phenothiazine drugs at DNA-modified electrodes, 332 (1996) 139

Wang, J., Rivas, G., Fernandes, J.R., Lopez Paz, J.L., Jiang, M. and Waymire, R., Indicator-free electrochemical DNA hybridization biosensor, 375 (1998) 197

Wang, J., see Cai, X., 344 (1997) 65

Wang, J., see Chen, Q., 306 (1995) 201

Wang, J., see Fan, J., 364 (1998) 275

Wang, J., see Kubiak, W.W., 329 (1996) 181

Wang, J., see Maccà, C., 303 (1995) 265

Wang, J., see Wang, J., 354 (1997) 275

Wang, J., see Wang, J., 385 (1999) 429

Wang, J., see Wang, J., 396 (1999) 33

Wang, J., see Wang, T., 306 (1995) 249

Wang, J., see Wang, W., 375 (1998) 261

Wang, J., see Xiaohua, C., 332 (1996) 49

Wang, J., Tian, B., Wang, J., Lu, J., Olsen, C., Yarnitzky, C., Olsen, K., Hammerstrom, D. and Bennett, W., Stripping analysis into the 21st century: faster, smaller, cheaper, simpler and better, 385 (1999) 429

Wang, J., Xiaohua, C., Rivas, G. and Shiraishi, H., Stripping potentiometric transduction of DNA hybridization processes, 326 (1996) 141

Wang, J., Zhang, X. and Prakash, M., Glucose microsensors based on carbon paste enzyme electrodes modified with cupric hexacyanoferrate, 395 (1999) 11

Wang, J.-H., see Jiang, J.-H., 336 (1996) 209

Wang, J.H., see Jiang, J.H., 354 (1997) 263

Wang, K.M., see Xiang, J.N., 384 (1999) 37

Wang, L., see Fu, C., 391 (1999) 29

Wang, L.F., see Zhou, J., 381 (1999) 17

Wang, L.-T., see Yan, Y., 306 (1995) 307

Wang, R., see Zhang, H., 374 (1998) 31

Wang, S.L., see Fang, Q., 390 (1999) 27

Wang, S.P. and Chang, C.L., Determination of parabens in cosmetic products by supercritical fluid extraction and capillary zone electrophoresis, 377 (1998) 85

Wang, S.P., see Wu, Z.Y., 398 (1999) 57

Wang, T., see Yang, R., 314 (1995) 95

Wang, T., Zhu, C., Wang, J., Xu, F., Chen, Z. and Luo, Y., Study on spectral characterization of infrared flare material combustion with remote high resolution Fourier transform infrared spectrometry, 306 (1995) 249

Wang, T.-H., see Liu, C.-Y., 337 (1997) 173

Wang, W., Liao, Y., He, Q., Wang, J., Feng, M. and Wu, G., Spectrophotometry with liquid-core optical fibre in aqueous solution phase in the ultraviolet region, 375 (1998) 261

Wang, W.M., see Zen, J.M., 372 (1998) 315

Wang, X. and Bobbitt, D.R., In situ cell for electrochemically generated Ru(bpy)<sup>3+</sup><sub>3</sub>-based chemiluminescence detection in capillary electrophoresis, 383 (1999) 213

Wang, X., Li, Y. and Chang, W., Mimicry of peroxidase by coimmobilization of 1-allylimidazole and hemin on N-isopropylacrylamide-based hydrogel, 400 (1999) 135

Wang, X., see Song, W., 394 (1999) 73

Wang, X., see Zhao, X., 306 (1995) 225

Wang, X.D., Cardwell, T.J., Cattrall, R.W., Dyson, R.P. and Jenkins, G.E., Time-division multiplex technique for producing concentration profiles in flow analysis, 368 (1998) 105

Wang, X.S., see Chen, M., 388 (1999) 11

Wang, Y., see Liu, W., 383 (1999) 299

Wang, Y., see Lu, J., 304 (1995) 369

Wang, Y.F., see Bell, S.E., 303 (1995) 163

Wang, Y.J., see Chuang, C.L., 353 (1997) 37

Wang, Y.T., Zhao, F.L., Li, K.A. and Tong, S.Y., Molecular spectroscopic study of DNA binding with neutral red and application to assay of nucleic acids, 396 (1999) 75

Wang, Z., see Zhang, J., 388 (1999) 71

Wang, Z.L., see Zhao, Y.D., 388 (1999) 93

Wann, C.C. and Jiang, S.J., Determination of vanadium species in water samples by liquid chromatography-inductively coupled plasma mass spectrometry, 357 (1997) 211

Wanninkhof, R., see Feely, R.A., 377 (1998) 185

Wanzhi, W., see Lili, B., 319 (1996) 97

Ward, R., see Sánchez-Bayo, F., 399 (1999) 173

Wareham, P.D. and Persaud, K.C., On-line analysis of sample atmospheres using membrane inlet mass spectrometry as a method of monitoring vegetable respiration rate, 394 (1999) 43

Warner, I.M., see Mwalupindi, A.G., 306 (1995) 49 Warsinke, A., see Kleinjung, F., 350 (1997) 51

Warsinke, A., see Stöcklein, W.F., 362 (1998) 101

Warwick, P., see Croudace, I., 371 (1998) 217

Warwick, P.E., Croudace, I.W. and Howard, A.G., Improved technique for the routine determination of tritiated water in aqueous samples, 382 (1999) 225

Warwick, P.E., see Wigley, F., 380 (1999) 73

Wasiak, W. and Rykowska, I., Iminoketonate complexes of Cu(II) chemically bonded to silica in gas chromatography, 378 (1999) 101

Wasiak, W., Ciszewska, W. and Ciszewski, A., Hair analysis. Part 1: Differential pulse anodic stripping voltammetric determination of lead, cadmium, zinc and copper in human hair samples of persons in permanent contact with a polluted workplace environment, 335 (1996) 201

Wasiak, W., see Ciszewski, A., 343 (1997) 225

Wasiak, W., see Wawrzyniak, R., 377 (1998) 61

Watanabe, A., see Ikebukuro, K., 329 (1996) 111

Watanabe, E., see Jae Shin, S., 364 (1998) 159

Watanabe, K., Okada, K., Oda, H., Furuno, K., Gomita, Y. and Katsu, T., New cocaine-selective membrane electrode, 316 (1995) 371 Watanabe, M., see Mawatari, K.-i., 302 (1995) 179

Watanabe, M., see Mawatari, K.i., 363 (1998) 133

Watanabe, M., see Shu-Xiu, Z., 314 (1995) 193

Watanabe, S., Ito, S., Omoda, N., Munakata, H., Hayashi, M. and Yuasa, Y., Development of a competitive enzyme-linked immunosorbent assay based on a monoclonal antibody for a fungicide flutolanil, 376 (1998) 93

Watanabe, S., see Seki, A., 382 (1999) 131

Watanabe, S., see Takeda, K., 377 (1998) 47

Watanabe, T., Ishii, T., Yoshimura, Y. and Nakazawa, H., Determination of chlorine dioxide using 4-aminoantipyrine and phenol by flow injection analysis, 341 (1997) 257

Watanabe, T., Makitsuru, K., Nakazawa, H., Hara, S., Suehiro, T., Yamamoto, A., Hiraide, T. and Ogawa, T., Separation of doublestrand DNA fragments by high-performance liquid chromatography using a ceramic hydroxyapatite column, 386 (1999) 69

Watanabe, T., see Kobayashi, M., 365 (1998) 199

Watanabe, T., see Nakazawa, H., 396 (1999) 125

Watanabe, T., see Suzuki, T., 352 (1997) 357

Watanabe, T., Teshima, N., Nakano, S. and Kawashima, T., Flowinjection/standard subtraction method for the determination of iron(III) based on its catalytic effect and inhibition of EDTA, 374 (1998) 303

Watanabe, Y., see Miyahara, Y., 331 (1996) 85

Watanabe-Suzuki, K., see Kumazawa, T., 387 (1999) 53

Watarai, H., see Matsumoto, A., 390 (1999) 193

Watarai, H., see Ohashi, A., 364 (1998) 53

Watarai, H., see Ohashi, A., 394 (1999) 23

Waterbury, R.D., Yao, W. and Byrne, R.H., Long pathlength absorbance spectroscopy: trace analysis of Fe(II) using a 4.5 m liquid core waveguide, 357 (1997) 99

Waters, F.G., see Cohen, A.S., 332 (1996) 269

Watier, H., see Tessier, L., 347 (1997) 207

Watson, A., see Wu, J., 383 (1999) 67

Watson, S.W., see Vaidya, B., 357 (1997) 167

Watterson, J., see Piunno, P.A., 400 (1999) 73

Wawrzyniak, R. and Wasiak, W., Synthesis and properties of mercaptosilicone modified by Ni(II) and Co(II) as stationary phases for capillary complexation gas chromatography, 377 (1998) 61

Waymire, R., see Wang, J., 375 (1998) 197

Webb, J., see Rahman, I.H.A, 393 (1999) 235

Weber, A., see Mecklenburg, M., 347 (1997) 79

Weber, D., see Jamin, E., 347 (1997) 359

Weber, G., see Alt, F., 359 (1998) 65

Weber, W.L., see Palumbo, P.A., 380 (1999) 243

Weckhuysen, B.M., see Verberckmoes, A.A., 348 (1997) 267

Wedge, R., see Sprules, S.D., 329 (1996) 215

Weerabahu, D., see Priyantha, N., 320 (1996) 263

Wegscheider, W., see Holcombe, D.G., 393 (1999) 157

Wehrens, R. and van der Linden, W.E., Calibration of an array of voltammetric microelectrodes, 334 (1996) 93

Wehrens, R., Gelder, R.de, Kemperman, G.J., Zwanenburg, B. and Buydens, L.M.C., Molecular challenges in modern chemometrics, 400 (1999) 413

Wehrens, R., Pretsch, E. and Buydens, L.M.C., The quality of optimisation by genetic algorithms, 388 (1999) 265 Wei, H. and Collinson, M.M., Functional-group effects on the ionexchange properties of organically modified silicates, 397 (1999) 113

Wei, J., see Moulin, C., 396 (1999) 253

Wei, L. and Jian, C., Continuous in-vivo monitoring of metronidazole in cerebrospinal fluid by a on-line flow-cell fiber-optic chemical sensor system, 331 (1996) 103

Wei, L., see Xin, Z., 318 (1996) 181

Wei, Q., see Zhujun, Z., 318 (1995) 71

Wei, S., Lu, J. and Zhang, Z., Determination of terbium with solid surface room temperature luminescence optosensing, 322 (1996) 167

Wei, W., see Bao, L., 369 (1998) 139

Wei, W., see Qu, X., 374 (1998) 47

Wei, W., see Zhang, H., 374 (1998) 31

Wei, W.Z., see Yang, X.R., 394 (1999) 119

Wei, W.Z., see Yang, X.Y., 378 (1999) 95

Wei, Y.-j., Li, K.-a. and Tong, S.-y., Spectral study of interaction of thymol blue with protein in acidic solution, 341 (1997) 97

Wei, Y.S., see Zhang, H.R., 357 (1997) 119

Wei, Z., Xiangjing, M., Na, L. and Shenyang, T., New method of simultaneous and non-destructive determination of human serum albumin and globulin, 316 (1995) 387

Weigel, B., see Amárita Vega, F., 373 (1998) 57

Weigel, B., see Burfeind, J., 322 (1996) 131

Weigel, B., see Tservistas, M., 316 (1995) 117

Weigel, U.M. and Herges, R., Simulation of infrared spectra using artificial neural networks based on semiempirical and empirical data. 331 (1996) 63

Weigl, B.H. and Wolfbeis, O.S., New hydrophobic materials for optical carbon dioxide sensors based on ion pairing, 302 (1995) 249

Wei-Guo, H., see Long-Di, L., 312 (1995) 345

Weijun, J., see Hongzhi, X., 319 (1996) 239

Weis, L., see Schulman, S.G., 304 (1995) 165

Weiss, A., see Minning, S., 378 (1999) 293

Weiss, P.S., Abrams, M.J., Cygan, M.T., Ferris, J.H., Kamna, M.M., Krom, K.R., Stranick, S.J. and Youngquist, M.G.Y., Atomicscale view of motion on surfaces, 307 (1995) 355

Weitzel, M.A., see Crowder, M.W., 384 (1999) 127

Welch, L.E., see Doscotch, M.A., 344 (1997) 55

Weller, M.G., Schuetz, A.J., Winklmair, M. and Niessner, R., Highly parallel affinity sensor for the detection of environmental contaminants in water, 393 (1999) 29

Weller, M.G., see Heiss, C., 396 (1999) 309

Welwardová, A., see Štefuca, V., 355 (1997) 63

Welz, B., see Hosten, E., 392 (1999) 55

Wen, W., Rutan, S.C., Baldovin, A. and Massart, D.-L., Feature selection using the Kalman filter for classification of multivariate data, 335 (1996) 11

Wen, X., see Chaniotakis, N.A., 356 (1997) 105

Wenhan, L., see Xin, Z., 318 (1996) 181

Wenhong, Z., see Mengsu, Y., 351 (1997) 177

Wenli, L., Ascenzo, G.D', Curini, R., Gasparini, G.M., Casarci, M., Mattia, B., Traverso, D.M. and Bellisario, F., Study of on-line analysis using energy dispersive X-ray fluorescence spectrometry for controlling lanthanum and neodymium extraction, 362 (1998) 253

Wennrich, R., see Shkinev, V.M., 327 (1996) 167

Wenrui, J. and Yan, W., Capillary zone electrophoresis with endcolumn amperometric detection for the determination of glutathione at a gold/mercury amalgam microelectrode without deoxygenation, 343 (1997) 231

Wenrui, J., Huiying, W. and Xin, Z., Adsorption-voltammetric determination of guanine, guanosine, adenine and adenosine with capillary zone electrophoresis separation, 347 (1997) 269

Wenrui, J., Qianfeng, W. and Jianren, W., Determination of bovine serum albumin by capillary zone electrophoresis with end-column amperometric detection at the carbon fiber microdisk array electrode, 342 (1997) 67

Wenrui, J., see Xin, Z., 318 (1996) 181

Wentzell, P.D., Hughes, S.G. and Vanslyke, S.J., Parallel Kalman filters for peak purity analysis: extensions to non-ideal detector response, 307 (1995) 459

Wentzell, P.D., see Andrews, D.T., 350 (1997) 341

Wentzell, P.D., see Little, M.J., 309 (1995) 283

Wentzell, P.D., see Lohnes, M.T., 389 (1999) 95 Wentzell, P.D., see Mehlman, S.A., 371 (1998) 117

Wenzhi, H., see Shun-an, C., 331 (1996) 257

Wenzhi, H., Shun-an, C., Tominaga, M. and Miyazaki, A., Direct determination of bromide ions in sea water by ion chromatography using water as the mobile phase, 322 (1996) 43

Werner, G., see Matysik, F.-M., 305 (1995) 114

Werner, R.A., Kornexl, B.E., Roßmann, A. and Schmidt, H.-L., Online determination of  $\delta^{18}O$  values of organic substances, 319 (1996) 159

Werner, T., see Huber, C., 364 (1998) 143

Werner, T., see Huber, C., 398 (1999) 137

Wernet, W., see Khan, G.F., 351 (1997) 151

West, S.J., see Chaniotakis, N.A., 356 (1997) 105

Westbroek, P., Temmerman, E. and Kiekens, P., Measurement and control of hydrogen peroxide concentration in alkaline solution by means of amperometric sensor system, 385 (1999) 423

Westerholm, H., see Turunen, M., 311 (1995) 85

Westerink, B.H. and Timmerman, W., Do neurotransmitters sampled by brain microdialysis reflect functional release?, 379 (1999) 263

Westerlund, S., see Sirinawin, W., 356 (1997) 35

Westin, S., see Blomqvist, S., 358 (1998) 245

Weston, C., see Regino, M., 369 (1998) 253

Wexler, A.S., see Mansoori, B.A., 359 (1998) 185

Wexler, A.S., see Mansoori, B.A., 390 (1999) 275 Weyrauch, B., see Parab, S., 359 (1998) 157

White, M.G., see Bartlett, M.G., 346 (1997) 223

White, S.F., Tothill, I.E., Newman, J.D. and Turner, A.P.F., Development of a mass-producible glucose biosensor and flow-injection analysis system suitable for on-line monitoring during fermentations, 321 (1996) 165

Whitehouse, M.J. and Preston, M., A flexible computer-based technique for the analysis of data from a sea-going nutrient autoanalyser, 345 (1997) 197

Whitman, D.A., see Li, J., 368 (1998) 141

Whitworth, D.-J., Achterberg, E.P., Herzl, V., Nimmo, M., Gledhill, M. and Worsfold, P.J., Development of a simple extraction procedure using ligand competition for biogeochemically available metals of estuarine suspended particulate matter, 392 (1999) 3

Whitworth, D.J., P. Achterberg, E., Nimmo, M. and Worsfold, P.J., Validation and in situ application of an automated dissolved nickel monitor for estuarine studies, 371 (1998) 235

Whitworth, D.J., P. Achterberg, E., Nimmo, M. and Worsfold, P.J., Validation and in situ application of an automated dissolved nickel monitor for estuarine studies, 377 (1998) 217

Wide, P., see Winquist, F., 357 (1997) 21

Widmer, H.M., see Dempsey, E., 346 (1997) 341

Wieczorek, P., Jönsson, J.Å. and Mathiasson, L., Extraction of dansylated amino acids using the supported liquid membrane technique, 337 (1997) 183

Wieczorek, P., Jönsson, J.Å. and Mathiasson, L., Concentration of amino acids using supported liquid membranes with di-2-ethylhexyl phosphoric acid as a carrier, 346 (1997) 191

Wieland, T., see Benecke, C., 314 (1995) 141

Wienke, D., van den Broek, W., Melssen, W., Buydens, L., Feldhoff, R., Kantimm, T., Huth-Fehre, T., Quick, L., Winter, F. and Cammann, K., Comparison of an adaptive resonance theory based neural network (ART-2a) against other classifiers for rapid sorting of post consumer plastics by remote near-infrared spectroscopic sensing using an InGaAs dio, 317 (1995) 1

Wienke, D., Xie, Y. and Hopke, P.K., Classification of airborne particles by analytical scanning electron microscopy imaging and a modified Kohonen neural network (3MAP), 310 (1995)

1

Wierzchowski, J., Interewicz, E., Wroczynski, P. and Orlanska, I., Continuous fluorimetric assay for human aldehyde dehydrogenase and its application to blood analysis, 319 (1996) 209

Wiesner, D.A. and Sweeley, C.C., Characterization of gangliosides by two-dimensional high-performance thin-layer chromatography, 311 (1995) 57

Wieteska, E., Zióek, A. and Drzewińska, A., Extraction as a method for preparation of vegetable samples for the determination of trace metals by atomic absorption spectrometry, 330 (1996) 251

Wightman, R. Mark, Runnels, P. and Troyer, K., Analysis of chemical dynamics in microenvironments, 400 (1999) 5

Wightman, R.M., see Quan, X., 341 (1997) 43

Wigley, F., Warwick, P.E., Croudace, I.W., Caborn, J. and Sanchez, A.L., Optimised method for the routine determination of Technetium-99 in environmental samples by liquid scintillation counting, 380 (1999) 73

Wijayawardhana, C. Ajith, Halsall, H. Brian and Heineman, W.R., Micro volume rotating disk electrode (RDE) amperometric detection for a bead-based immunoassay, 399 (1999) 3

Wikiel, K.J., see Osteryoung, J.G., 351 (1997) 65

Wilcken, H. and Schulten, H.-R., Quality control of paints: Pyrolysis-mass spectrometry and chemometrics, 336 (1996) 201

Wild, J.R., see Simonian, A.L., 389 (1999) 189

Wild, L., see Mills, A., 362 (1998) 193

Wilkie, P.J., see Pantsar-Kallio, M., 393 (1999) 181

Wilkins, E., see Abdel-Hamid, I., 313 (1995) 45

Wilkins, E., see Abdel-Hamid, I., 399 (1999) 99

Wilkinson, A.E., see Jones, M.N., 314 (1995) 149

Wilkinson, J.S., see Brecht, A., 362 (1998) 69

Wilkinson, J.S., see Mouvet, C., 338 (1997) 109

Willard, D., see Carroll, J.A., 307 (1995) 431

Williams, D.C., Establishment of absolute diffuse reflectance scales using the NPL Reference Reflectometer, 380 (1999) 165

Williams, J.L., see Wring, S.A., 334 (1996) 225

Williams, J.M., see Han, T., 307 (1995) 365

Williams, K.M. and Marshall, T., Electrophoretic characterisation of the major cat parotid salivary protein, 372 (1998) 249

Williams, K.M., see Marshall, T., 372 (1998) 147

Williams, P.M., see Pope, L.H., 400 (1999) 27

Williams, R.E., see Brennan, J.D., 336 (1996) 157

Williams, S., see Chen, W., 388 (1999) 231

Williams, S., see MacNamara, E., 397 (1999) 9

Williams, S.J.S., see Taylor, M.J.C., 329 (1996) 275

Williamson, C.J., Durability and cleaning of matt surface ceramic colour standards, 380 (1999) 413

Willicut, R.J. and McCarley, R.L., Surface-confined monomers on electrode surfaces Part 3. Electrochemical reactions and scanning probe microscopy investigations of ω-(N-pyrrolyl) alkanethiol self-assembled monolayers on gold, 307 (1995) 269

Willner, I., see Bardea, A., 385 (1999) 33

Willner, I., see Katz, E., 385 (1999) 45

Windig, W., see Bijlsma, S., 376 (1998) 339

Windig, W., see Phalp, J.M., 318 (1995) 43

Winefordner, J.D., see Aucélio, R.Q., 350 (1997) 231

Winefordner, J.D., see Baker, S.A., 355 (1997) 113

Winefordner, J.D., see Escobar, M.P., 320 (1996) 11

Winefordner, J.D., see Hueber, D.M., 316 (1995) 129

Winefordner, J.D., see Riter, K.L., 333 (1996) 187

Wing, H.C. and Tian, Y.X., Adsorption voltammetric determination of μg 1<sup>-1</sup> levels formaldehyde via in situ derivatization with Girard's reagent T, 339 (1997) 173

Wing, H.C. and Tian, Y.X., Determination of sub-ppbv levels of formaldehyde in ambient air using Girard's reagent T-coated glass fiber filters and adsorption voltammetry, 349 (1997) 349

Wing, H.C., Lee, A.W.M., Yiu, S.L. and Ke, M.W., Fluorescent sensor based on newly synthesized fluorescein octadecyl ether octadecyl ester (FODEE) for direct determination of phenols in aqueous solutions, 351 (1997) 197

Wing, H.C., see Lee, A.W.M., 322 (1996) 99

Winklmair, M., see Weller, M.G., 393 (1999) 29

Winquist, F., see Lidén, H., 361 (1998) 223

Winquist, F., Wide, P. and Lundström, I., An electronic tongue based on voltammetry, 357 (1997) 21

Winson, M.K., Goodacre, R., Timmins, É.M., Jones, A., Alsberg, B.K., Woodward, A.M., Rowland, J.J. and Kell, D.B., Diffuse reflectance absorbance spectroscopy taking in chemometrics (DRASTIC). A hyperspectral FT-IR-based approach to rapid screening for metabolite overproduction, 348 (1997) 273

Winson, M.K., see Alsberg, B.K., 368 (1998) 29

Winter, F., see Wienke, D., 317 (1995) 1

Wintersteiger, R., Barary, M.H., El-Yazbi, F.A., Sabry, S.M. and Wahbi, A.-A.M., Reversed phase-liquid chromatography of primary and secondary aliphatic amines after derivatization combined with electrochemical detection, 306 (1995) 273

Wintersteiger, R., see Ofner, B., 305 (1995) 318

Wistuba, D., see Hofstetter, H., 332 (1996) 285

Woerner, R., see Bruhn, C.G., 306 (1995) 183

Wohlrab, J., see Mrestani, Y., 349 (1997) 207

Wohlschläger, H., see Schuhmann, W., 315 (1995) 113

Wolf, L.K., see Pizzolatto, R.L., 397 (1999) 81

Wolfbauer, G., see Greenway, G.M., 312 (1995) 15

Wolfbeis, O.S., see de Marcos, S., 334 (1996) 149

Wolfbeis, O.S., see Huber, C., 364 (1998) 143

Wolfbeis, O.S., see Huber, C., 398 (1999) 137

Wolfbeis, O.S., see Lobnik, A., 367 (1998) 159

Wolfbeis, O.S., see Mohr, G.J., 316 (1995) 239

Wolfbeis, O.S., see Murkovic, I., 334 (1996) 125

Wolfbeis, O.S., see Neurauter, G., 382 (1999) 67

Wolfbeis, O.S., see Papkovsky, D.B., 337 (1997) 201

Wolfbeis, O.S., see Preininger, C., 334 (1996) 113 Wolfbeis, O.S., see Pringsheim, E., 357 (1997) 247

Wolfbeis, O.S., see Riepl, M., 392 (1999) 77

Wolfbeis, O.S., see Schulman, S.G., 304 (1995) 165

Wolfbeis, O.S., see Trinkel, M., 320 (1996) 235

Wolfbeis, O.S., see Weigl, B.H., 302 (1995) 249

Wolff, J.-C., Taylor, P.D.P. and De Bièvre, P., Measuring SI-traceable nitrate concentrations in water by a primary method of measurement, isotope dilution mass spectrometry, 346 (1997)

Wollenberger, U., Drungiliene, A., Stöcklein, W., Kulys, J.J. and Scheller, F.W., Direct electrocatalytic determination of dissolved peroxidases, 329 (1996) 231

Wollenberger, U., see Lisdat, F., 368 (1998) 233

Wollenberger, U., see Paeschke, M., 305 (1995) 126

Wollenberger, U., see Streffer, K., 362 (1998) 81

Wolterbeek, H.Th., see Harms, A.V., 394 (1999) 271

Won, J.C. and Jang, D.C., Linear solvation energy relationships in normal phase liquid chromatography based on retention data on silica in 2-propanol/hexane eluents, 342 (1997) 51

Won, L., see Chang, H.L., 339 (1997) 303

Won, L., see Chang, H.L., 351 (1997) 57

Wong, A.Y.S., see Tanner, P.A., 370 (1998) 279

Wong, D.K., see Pickup, N.L., 364 (1998) 41

Wong, D.K.Y., see Milojevic, D., 319 (1996) 353

Wong, J.L., Qian, J. and Chen, C.H., Nickel speciation of fly ash by phase extraction, 349 (1997) 121

Wong, P., see Srinivasan, N., 350 (1997) 257

Wong, P.S.H. and Cooks, R.G., Trace level analysis of volatile and semi-volatile organic compounds in water using a membrane/jet separator interfaced to an ion trap mass spectrometer, 310 (1995) 387

Wong, P.S.H., see Soni, M.H., 303 (1995) 149

Wong, R.B., see Lee, M., 354 (1997) 23

Wong, S.-K., see Lau, O.-W., 347 (1997) 249

Won-Yong, L. and Nieman, T.A., Effect of organic solvent on tris(2,2'-bipyridyl)ruthenium(III) chemiluminescent reactions in flowing streams, 334 (1996) 183

Woo, L. and Maher, W., Determination of phosphorus in turbid waters using alkaline potassium peroxodisulphate digestion, 315 (1995) 123

Woo, L., see Maher, W., 375 (1998) 5

Woodward, A.M., see Alsberg, B.K., 368 (1998) 29

Woodward, A.M., see Winson, M.K., 348 (1997) 273

Worasing, S., see Surareungchai, W., 380 (1999) 7

Worsfold, P., Preface, 400 (1999) 1

Worsfold, P.J., see Andrew, K.N., 314 (1995) 33

Worsfold, P.J., see Andrew, K.N., 346 (1997) 113

Worsfold, P.J., see Andrew, K.N., 388 (1999) 315

Worsfold, P.J., see Bellerby, R.G.J., 309 (1995) 259

Worsfold, P.J., see Bowie, A.R., 361 (1998) 189

Worsfold, P.J., see Bowle, A.R., 361 (1998) 189 Worsfold, P.J., see David, A.R., 361 (1998) 63

Worsfold, P.J., see McKelvie, I.D., 351 (1997) 265

Worsfold, P.J., see Nickson, R.A., 351 (1997) 311

Worsfold, P.J., see Price, D., 371 (1998) 205

Worsfold, P.J., see Price, D., 377 (1998) 145

Worsfold, P.J., see Whitworth, D.J., 371 (1998) 235

Worsfold, P.J., see Whitworth, D.J., 377 (1998) 217

Worsfold, P.J., see Whitworth, D.-J., 392 (1999) 3

Wortberg, M., Jones, G., Kreissig, S.B., Rocke, D.M., Gee, S.J. and Hammock, B.D., An approach to the construction of an immunoarray for differentiating and quantitating cross reacting analytes, 319 (1996) 291

Wortberg, M., Kreissig, S.B., Jones, G., Rocke, D.M. and Hammock, B.D., An immunoarray for the simultaneous determination of multiple triazine herbicides, 304 (1995) 339

Wortberg, M., see Jones, G., 313 (1995) 197

Wortberg, M., see Jones, G., 336 (1996) 175

Wright, G.A., see Hauser, P.C., 302 (1995) 241

Wrigley-Jones, C., see Goodacre, R., 313 (1995) 25

Wring, S.A., see Sprules, S.D., 304 (1995) 17
Wring, S.A., Williams, J.L., O'Neill, R.M., Ayres, D.W., Jenner, W.N., Bowers, G.D., Fellows, I., Carr, R.M., Wadsworth, A.H. and Sutherland, D.R., Development of a sensitive radioimmunoassay for the potential anti-migraine drug GR151004: including cross-validation to liquid chromatography-mass spectrometry-mass spectrometry-mass spectrometry and applic, 334 (1996) 225

Wróbel, K., see López-de-Alba, P.L., 330 (1996) 19

Wróbel, K., see Wróbel, K., 387 (1999) 217

Wróbel, K., Wróbel, K., Cruz-Jiménez, G. and Angulo-Romero, F., Application of internal standard for micro extraction-spectrophotometric determination of copper in serum and in natural waters, 387 (1999) 217

Wróbel-Kaczmarczyk, K., see López-de-Alba, P.L., 330 (1996)

Wróblewski, W. and Brzózka, Z., Switching of ion selectivity of membranes by lipophilic ionic sites, 326 (1996) 163

Wroczynski, P., see Wierzchowski, J., 319 (1996) 209

Wu, A., see Ni, Y., 390 (1999) 117

Wu, G., see Wang, W., 375 (1998) 261

Wu, H., see Chiarelli, M. Paul, 397 (1999) 257

Wu, H., see Paul Chiarelli, M., 368 (1998) 1

Wu, H.L., see Lin, S.J., 386 (1999) 113

Wu, H.-L., see Wu, S.-M., 307 (1995) 103

Wu, J. and Boyle, E.A., Determination of iron in seawater by highresolution isotope dilution inductively coupled plasma mass spectrometry after Mg(OH)<sub>2</sub> coprecipitation, 367 (1998) 183

Wu, J., Tragas, C., Watson, A. and Pawliszyn, J., Capillary isoelectric focusing with whole column detection and a membrane sample preparation system, 383 (1999) 67 Wu, J., Zhu, J., Zhang, G., Lin, X. and Cheng, N., Fabrication and application of a diamond-film glucose biosensor based on a H<sub>2</sub>O<sub>2</sub> microarray electrode, 327 (1996) 133

Wu, J.F., see Liu, X.Z., 392 (1999) 273

Wu, M.-H., see Jen, J.-F., 339 (1997) 251

Wu, M.L., see Bor Fuh, C., 395 (1999) 257

Wu, Q. and Batley, G.E., Determination of sub-nanomolar concentrations of lead in sea water by adsorptive stripping voltammetry with xylenol orange, 309 (1995) 95

Wu, S.H., see Chiou, S.H., 383 (1999) 47

Wu, S.-M., Wu, H.-L. and Chen, S.-H., Determination of betamethasone and dexamethasone in plasma by fluorogenic derivatization and liquid chromatography, 307 (1995) 103

Wu, W. and Massart, D.L., Regularised nearest neighbour classification method for pattern recognition of near infrared spectra, 349 (1997) 253

Wu, W., Mallet, Y., Walczak, B., Penninckx, W., Massart, D.L., Heuerding, S. and Erni, F., Comparison of regularized discriminant analysis, linear discriminant analysis and quadratic discriminant analysis, applied to NIR data, 329 (1996) 257

Wu, W., see Guo, Q., 382 (1999) 87

Wu, W., Walczak, B., Massart, D.L., Prebble, K.A. and Last, I.R., Spectral transformation and wavelength selection in near-infrared spectra classification, 315 (1995) 243

Wu, W., Walczak, B., Penninckx, W. and Massart, D.L., Feature reduction by Fourier transform in pattern recognition of NIR data, 331 (1996) 75

Wu, X., see Hong Chan, W., 370 (1998) 259

Wu, X., see Jürgens, H., 302 (1995) 289

Wu, X., see Kim, J., 370 (1998) 251

Wu, X., see Lin, C., 392 (1999) 291

Wu, X., see Yang, J., 363 (1998) 105

Wu, X., Zhao, H., Chen, X., Hu, Z., Zhao, Z. and Hooper, M., Direct spectrophotometric determination of chromium by microwaveoven induced flow-injection analysis, 374 (1998) 61

Wu, Y., see Ni, Y., 354 (1997) 233

Wu, Y., see Tong, A., 369 (1998) 11

Wu, Y.C. and Huang, S.D., Cloud point preconcentration and liquid chromatographic determination of aromatic amines in dyestuffs, 373 (1998) 197

Wu, Y.Q., see Li, M.X., 356 (1997) 225

Wu, Z.Y., Shen, G.L., Li, Z.Q., Wang, S.P. and Yu, R.Q., A direct immunoassay for schistosoma japonium antibody (SjAb) in serum by piezoelectric body acoustic wave sensor, 398 (1999) 57

Wuming, Z., see Oi-wah, L., 312 (1995) 217

Wuming, Z., see Xingyao, Z., 329 (1996) 105

Wuske, T., Fittkau, I., Mahn, J., Polzius, R. and Manns, A., Pentachlorophenol detection at the source of emission. Sampling equipment and immunochemical analysis, 359 (1998) 321

Wust, C.C., see Piunno, P.A., 400 (1999) 73

Wust, C.C., see Sojka, B., 395 (1999) 273

Wyrwas, B., see Szymanski, A., 305 (1995) 256

Wyrwas, B., Szymanski, A. and Lukaszewski, Z., Determination of non-ionic surfactants adsorbed on particles of surface water by an indirect tensammetric method combined with the BiAS separation scheme, 331 (1996) 131

Wysocki, V.H., see Gu, C., 397 (1999) 247

# X

Xavier Rius, F., see Maroto, A., 391 (1999) 173

Xi, J.B., see Jiang, Z.T., 392 (1999) 247

Xi, Z., see Changqing, S., 312 (1995) 207

Xia, C., Jiang, J.-H., Shen, G.-L. and Yu, R.-Q., Simultaneous immunoassay using piezoelectric immunosensor array and robust method, 336 (1996) 185

Xia, C., see Jiang, J.-H., 336 (1996) 209

Xia, S., Xiao, D., Yuan, H., Cheng, B., Yuan, F. and Yu, R., Copper(II) ion-sensitive electrode using chemical vapor deposited Nb-Ge superconducting films, 382 (1999) 151

Xia, X., see Zhao, S., 391 (1999) 365

Xian, Y., Sun, W., Xue, J., Luo, M. and Jin, L., Iridium oxide and palladium modified nitric oxide microsensor, 381 (1999) 191

Xian, Y.z., see Zhang, S., 399 (1999) 213

Xiang, J.N., Cao, Z., Yin, X., Wang, K.M., Lin, H.G. and Yu, R.Q.. Thickness-shear-mode acoustic-wave sensor based on n-butylamine plasma-deposition film for detection of carboxylic acid vapours, 384 (1999) 37

Xiangjing, M., see Wei, Z., 316 (1995) 387

Xiangzhu, X., see Hongying, Z., 382 (1999) 137

Xiao, C., see Tan, A., 388 (1999) 219

Xiao, D., see Choi, M.M., 387 (1999) 197

Xiao, D., see Xia, S., 382 (1999) 151

Xiao, J., Lima, J.L.F.C. and Montenegro, M.C.B.S.M., Simultaneous determination of inorganic anions and carboxylic acids in wine using isocratic separation on a permanently coated reversed-phase column and UV indirect detection, 321 (1996) 263

Xiao, K.P., see Nishizawa, S., 358 (1998) 35

Xiao, Y., Ju, H.X. and Chen, H.Y., Hydrogen peroxide sensor based on horseradish peroxidase-labeled Au colloids immobilized on gold electrode surface by cysteamine monolayer, 391 (1999) 73

Xiao, Y., Ju, H.-X. and Chen, H.-Y.. A reagentless hydrogen peroxide sensor based on incorporation of horseradish peroxidase in poly(thionine) film on a monolayer modified electrode, 391 (1999) 299

Xiaoan, W. and Bellgardt, K.-H., On-line fault detection of flowinjection analysis systems based on recursive parameter estimation, 313 (1995) 161

Xiao-Bing, Z., see Zhong, C., 335 (1996) 117

Xiaodan, X., see Zhiming, L., 345 (1997) 147

Xiaohua, C., Rivas, G., Farias, P.A.M., Shiraishi, H., Wang, J. and Paleček, E., Potentiometric stripping analysis of bioactive peptides at carbon electrodes down to subnanomolar concentrations, 332 (1996) 49

Xiaohua, C., see Joseph, W., 344 (1997) 111

Xiaohua, C., see Tavčar, G., 329 (1996) 239

Xiaohua, C., see Wang, J., 326 (1996) 141

Xiaoli, S., see Huwei, T., 353 (1997) 29

Xiaolin, Z., see Haiying, L., 329 (1996) 97
Xiaoming, F., Jiannong, Y. and Yuzhi, F., Determination of polyhydroxy antibiotics by capillary zone electrophoresis with amperometric detection at a nickel electrode, 329 (1996) 49

Xiaowei, G. and Xuming, G., Studies on the reaction between cadmium and potassium tetrahydroborate in aqueous solution and its application in atomic fluorescence spectrometry, 310 (1995) 377

Xiaoying, H. and Rechnitz, G.A., Plant tissue-based fiber-optic pyruvate sensor, 316 (1995) 57

Xiaoyong, Z. and Jinyuan, M., Spline wavelet analysis for voltammetric signals, 340 (1997) 115

Xiaozhong, L., see Yeping, Z., 316 (1995) 403

Xie, B., see Dzgoev, A., 347 (1997) 87

Xie, B., see Lin, S.X., 383 (1999) 101

Xie, B., see Tang, X.J., 374 (1998) 185

Xie, J., see Hui, F., 339 (1997) 109

Xie, Y. and K. Hopke, P., Calibration transfer as a data reconstruction problem, 384 (1999) 193

Xie, Y., Hopke, P.K. and Paatero, P., Erratum to "Calibration transfer as a data reconstruction problem". [Analytica Chimica Acta 384 (1999) 193–205], 392 (1999) 347

Xie. Y., see Bai. Y., 373 (1998) 39

Xie, Y., see Wienke, D., 310 (1995) 1

Xie, Y.-L. and Kalivas, J.H., Evaluation of principal component selection methods to form a global prediction model by principal component regression, 348 (1997) 19

Xie, Y.-L. and Kalivas, J.H., Local prediction models by principal component regression, 348 (1997) 29

Xijun, C., see Zhixing, S., 310 (1995) 493

Xin, Z., see Wenrui, J., 347 (1997) 269

Xin, Z., Zhe, Z., Wei, L., Wenrui, J. and Wenhan, L., Determination of trace gallium by derivative adsorption chronopotentiometry, 318 (1996) 181

Xing, W.-L. and He, X.-W., Prediction of the selectivity coefficients of a berberine selective electrode using artificial neural networks, 349 (1997) 283

Xingguo, C., Yanjun, X. and Zhide, H., Effect of solvent properties on the dispersion coefficient in an on-line microwave flowinjection system, 314 (1995) 213

Xinguo, W., Ruxiu, C., Zhixin, L. and Jieke, C., Selective kinetic method based on detecting the intermediate product in successive reactions, 325 (1996) 105

Xingyao, Z., Hongying, C., Cheng, Y. and Wuming, Z., Determination of pH using a polyaniline-coated piezoelectric crystal, 329 (1996) 105

Xingyin, L., see Zhixing, S., 310 (1995) 493

Xing-Zheng, W. and Hobo, T., Monitoring and analyzing of a chemical reaction process using reaction heat-induced optical beam deflection, 316 (1995) 111

Xin-Hua, S. and Hopke, P.K., Kohonen neural network as a pattern recognition method based on the weight interpretation, 334 (1996) 57

Xin-Sheng, C. and Danielsson, L.-G., Approaches to in-line removal of dissolved oxygen in flow systems for process analysis, 332 (1996) 31

Xinxin, W., see Haiying, L., 329 (1996) 97

Xiong, B., see Chu, X., 373 (1998) 29

Xiong, G., Liang, J., Zou, S. and Zhang, Z., Microwave-assisted extraction of atrazine from soil followed by rapid detection using commercial ELISA kit, 371 (1998) 97 Xiwen, H., see Jie, Z., 381 (1999) 85

Xu, C.J., see Li, Y., 388 (1999) 161

Xu, C.X., see Marzouk, S.A., 363 (1998) 57

Xu, C.X., see Nagy, G., 377 (1998) 1

Xu, D., see Katsu, T., 354 (1997) 301

Xu, D.-K., Hua, L. and Chen, H.-Y., Amperometric detection of enzymes in capillary zone electrophoresis based on dynamic modification with surfactants, 349 (1997) 215

Xu, F., see Shi, G., 386 (1999) 123

Xu, F., see Shi, G., 391 (1999) 307

Xu, F., see Wang, T., 306 (1995) 249

Xu, H., see Li, J., 357 (1997) 219

Xu, H., see Li, J., 373 (1998) 73

Xu, J., see Granger, M.C., 397 (1999) 145

Xu, J.-G., Chen, H.-P., Guo, X.-Q. and Zhao, Y.-B., Determination of reserpine by in situ sensitized photochemical spectrofluorimetry, 302 (1995) 207

Xu, J.G., see Chen, M., 388 (1999) 11

Xu, J.G., see Chen, Q.y., 381 (1999) 175

Xu, J.-G., see Guo, X.-Q., 343 (1997) 109

Xu, J.G., see Li, D.H., 389 (1999) 85

Xu, J.-G., see Li, W.-Y., 340 (1997) 291

Xu, J.-G., see Yan, Y., 306 (1995) 307

Xu, J.G., see Zhang, H.M., 361 (1998) 9

Xu, J.-G., see Zhao, Y.-B., 353 (1997) 329

Xu, J.G., see Zhu, Q.Z., 375 (1998) 177

Xu, J.G., see Zhu, Q.Z., 394 (1999) 177

Xu, J.W., see Zhou, J., 381 (1999) 17

Xu, Q., see Zhao, Y., 388 (1999) 45

Xu, R.-J., see Liu, H.-L., 342 (1997) 223

Xu, S.K., see Fang, Q., 390 (1999) 27
Xu, X.M. and Ikai, A., Recovery and amplification of plasmid DNA with atomic force microscopy and the polymerase chain reaction, 361 (1998) 1

Xu, X.Q., see Chen, G.N., 375 (1998) 269

Xu, Z. and Dong, Y., Investigation of adsorption-dissociation mechanism of organic molecules at solid-liquid interface using nonlinear optical molecular probing method, 397 (1999) 73

Xue, H. and Sigg, L., Cadmium speciation and complexation by natural organic ligands in fresh water, 363 (1998) 249

Xue, J., see Xian, Y., 381 (1999) 191

Xue, K.-H., see Cai, C.-X., 343 (1997) 69

Xue, R.Y., see Zhang, Y.Q., 369 (1998) 123

Xue-Mei, H., see Min, Z., 334 (1996) 303

Xueping, L. and Rosenzweig, Z., A fiber optic sensor for rapid analysis of bilirubin in serum, 353 (1997) 263

Xuesheng, B., see Zhaolun, F., 326 (1996) 49

Xuexin, G., see Piying, G., 332 (1996) 307

Xuezhu, L. and Hansen, E.H., Sequential injection determination of D-glucose by chemiluminescence using an open tubular immobilised enzyme reactor, 326 (1996) 1

Xuezhu, L. and Zhaolun, F., Flame atomic absorption spectrometric determination of cobalt in biological materials using a flowinjection system with on-line preconcentration by ion-pair adsorption, 316 (1995) 329

Xuhong, L., see Zhiliang, J., 346 (1997) 249

Xuming, G., see Xiaowei, G., 310 (1995) 377

Yabe-Nishimura, C., see Tanimoto, T., 365 (1998) 285

Yabuki, S., see Mizutani, F., 314 (1995) 233

Yabuki, S., see Mizutani, F., 364 (1998) 173

Yabuki, S., see Saby, C., 304 (1995) 33

Yabuuchi, K., see Hara, H., 364 (1998) 117

Yagi, M., see Kozono, S., 368 (1998) 275

Yagiuda, K., see Hemmi, A., 316 (1995) 323

Yagodina, O.V. and Nikolskaya, E.B., New potentiometric gas-gap sensor, 385 (1999) 137

Yakabe, T., see Ishida, J., 346 (1997) 175

Yamada, H., see Yamane, T., 308 (1995) 433

Yamada, M., see Lin, J.M., 371 (1998) 171

Yamada, M., see Tsukada, S., 371 (1998) 163

Yamada, T., see Hisamoto, H., 373 (1998) 271

Yamada, T., see Nakazawa, H., 396 (1999) 125

Yamada, Y., see Takenaka, M., 336 (1996) 151

Yamaguchi, A., see Yokoi, K., 316 (1995) 363

Yamaguchi, M., see Ishida, J., 302 (1995) 61

Yamaguchi, M., see Ishida, J., 309 (1995) 211

Yamaguchi, M., see Ishida, J., 346 (1997) 175

Yamaguchi, M., see Ishida, J., 365 (1998) 227

Yamaguchi, M., see Nohta, H., 344 (1997) 233

Yamaguchi, Y., see Miyake, S., 376 (1998) 97

Yamaguchi, Y., see Morimune, K., 376 (1998) 37

Yamaguchi, Y., see Yamane, T., 345 (1997) 139

Yamamoto, A., see Nakano, N., 398 (1999) 305

Yamamoto, A., see Nakazawa, H., 396 (1999) 125

Yamamoto, A., see Watanabe, T., 386 (1999) 69

Yamamoto, H., see Kogure, M., 337 (1997) 107

Yamamoto, K., Sensitive determination of quaternary ammonium salts by extraction-spectrophotometry of ion associates with bromophenol blue anion and coextraction, 302 (1995)

Yamamoto, K., see Shi, G., 391 (1999) 307

Yamamoto, K., see Zhang, S., 386 (1999) 21

Yamamoto, K., see Zhang, S., 399 (1999) 213

Yamamoto, O., see Terato, H., 365 (1998) 183

Yamamura, M., see Kobayashi, M., 361 (1998) 285

Yamamura, M., see Kobayashi, M., 365 (1998) 199

Yamanaka, H., see Jae Shin, S., 364 (1998) 159

Yamanaka, H., see Milagres, B.G., 347 (1997) 35

Yamanaka, H., see Nunes, G.S., 362 (1998) 59

Yamane, T. and Yamada, H., Flow-injection spectrophotometric determination of trace iron in various salts. Elimination of blank peak effect and use of 2-(5-nitro-2-pyridylazo)-5-(N-propyl-Nsulfopropylamino)phenol as chromogenic agent, 308 (1995) 433

Yamane, T. and Yamaguchi, Y., Complex formation of 2-(5-nitro-2pyridylazo)-5-(N-propyl-N-sulfo-propylamino)phenol with lead, cadmium and manganese for their sensitive spectrophotometric detection in flow injection and ion chromatography systems, 345 (1997) 139

Yamano, H., see Miki, A., 356 (1997) 165

Yamaoka, T., Pore gradient gel electrophoresis: theory, practice, and applications, 372 (1998) 91

Yamasaki, H., see Nakashima, K., 303 (1995) 103

Yamashita, K., see Miyahara, Y., 331 (1996) 85

Yamashita, M., see Miki, A., 356 (1997) 165

Yamashita, N., see Wagatsuma, K., 324 (1996) 147

Yamashita, S., see Katsu, T., 312 (1995) 35

Yamashita, S., see Murata, K., 344 (1997) 153

Yamauchi, K.i., see Hisamoto, H., 373 (1998) 271

Yamazaki, S., see Saito, K., 378 (1999) 43

Yamini, Y., Alizadeh, N. and Shamsipur, M., Solid phase extraction and determination of ultra trace amounts of mercury(II) using octadecyl silica membrane disks modified by hexathia-18crown-6-tetraone and cold vapour atomic absorption spectrometry, 355 (1997) 69

Yan, D., see Liao, Y.P., 360 (1998) 209

Yan, F., see Liu, B., 386 (1999) 31

Yan, W., see Wenrui, J., 343 (1997) 231

Yan, X., see Shi, O., 337 (1997) 165

Yan, X.P., see Ivanova, E., 354 (1997) 7

Yan, Y., Xu, J.-G., Lin, Z.-G., Zhao, Y.-B., Wang, L.-T. and Chen, G.-Z., Study on total luminescence spectra. Application of the Monte-Carlo method to three-dimensional synchronous fluorescence spectrometry, 306 (1995) 307

Yanagida, Y., see Kim, E.J., 394 (1999) 225

Yanagihara, H., Sakata, R., Minami, H., Tanaka, H., Shoyama, Y. and Murakami, H., Immunoaffinity column chromatography against forskolin using an anti-forskolin monoclonal antibody and its application, 335 (1996) 63

Yanase, A., see Yokoyama, T., 398 (1999) 75

Yáñez-Sedeño, P., see Agüí, L., 385 (1999) 241

Yáñez-Sedeño, P., see Agüi, M.L., 305 (1995) 324

Yan-Fei, L., see Zheng-Qi, Z., 333 (1996) 119

Yang Kim, D., see Heon Lee, C., 382 (1999) 199

Yang Tong, S., see Liu, Y., 379 (1999) 39

Yang, C.-C., see Chang, H.-C., 340 (1997) 49

Yang, D., see Chang, X., 354 (1997) 143

Yang, D., see Jie, N., 359 (1998) 87

Yang, F., see Chau, Y.K., 304 (1995) 85

Yang, F., see Chau, Y.K., 338 (1997) 51

Yang, H.H., see Zhu, Q.Z., 394 (1999) 177

Yang, H.Y. and Sun, I.W., Cathodic stripping voltammetric determination of tellurium(IV) at a Nafion/8-quinolinol mercury film modified electrode, 358 (1998) 285

Yang, J., see Jie, N., 359 (1998) 87

Yang, J., see Lin, C., 392 (1999) 291

Yang, J., Zhang, G., Wu, X., Huang, F., Lin, C., Cao, X., Sun, L. and Ding, Y., Fluorimetric determination of epinephrine with ophenylenediamine, 363 (1998) 105

Yang, J.Y., see Sun, Y.C., 395 (1999) 293

Yang, K.-L. and Jiang, S.-J., Determination of selenium compounds in urine samples by liquid chromatography-inductively coupled plasma mass spectrometry with an ultrasonic nebulizer, 307

Yang, K.-S., see Seok, Y.-J., 306 (1995) 351

Yang, L.-l., see Sun, H.-w., 353 (1997) 79

Yang, L.l., see Zhang, D.q., 395 (1999) 173

Yang, M., McGovern, M.E. and Thompson, M., Genosensor technology and the detection of interfacial nucleic acid chemistry, 346 (1997) 259

Yang, M.H., see Mierzwa, J., 355 (1997) 277

Yang, P., see Kokot, S., 304 (1995) 297

Yang, R., Lu, Y., Song, G., Wang, T. and Pan, J., Spectrophotometric determination of uranium in natural water with the new chromogenic reagent p-carboxychlorophosphonazo, 314 (1995) 95

Yang, R.-H., see Liu, D., 338 (1997) 209

Yang, T.C., see Jen, J.-F., 339 (1997) 251

Yang, X., Brynn Hibbert, D. and Alexander, P.W., Flow injection potentiometry by poly(vinyl chloride)-membrane electrodes with substituted azacrown ionophores for the determination of lead(II) and mercury(II) ions, 372 (1998) 387

Yang, X., see Shouan, D., 345 (1997) 243

Yang, X.J., Pin, C. and Fane, A.G., Hollow fiber membrane chromatography: A novel analytical system for trace metal separation, 369 (1998) 17

Yang, X.R., Wei, W.Z. and Yao, S.Z., Erratum to "Determination of components in biological media by ion chromatography with series bulk acoustic wave detection" [Analytica Chimica Acta 378 (1999) 95–100], 394 (1999) 119

Yang, X.Y., Wei, W.Z. and Yao, S.Z., Determination of components in biological media by ion chromatography with series bulk acoustic wave detection, 378 (1999) 95

Yang, Y.J., see Pizzolatto, R.L., 397 (1999) 81

Yang, Z., Sasaki, S., Karube, I. and Suzuki, H., Fabrication of oxygen electrode arrays and their incorporation into sensors for measuring biochemical oxygen demand, 357 (1997) 41

Yanjun, X., see Xingguo, C., 314 (1995) 213

Yano, K., Nakagiri, T., Takeuchi, T., Matsui, J., Ikebukuro, K. and Karube, I., Stereoselective recognition of dipeptide derivatives in molecularly imprinted polymers which incorporate an L-valine derivative as a novel functional monomer, 357 (1997) 91

Yano, K., see Ji, H.S., 387 (1999) 39

Yano, K., see McNiven, S., 365 (1998) 69

Yano, K., Tanabe, K., Takeuchi, T., Matsui, J., Ikebukuro, K. and Karube, I., Molecularly imprinted polymers which mimic multiple hydrogen bonds between nucleotide bases, 363 (1998) 111

Yano, K., Yoshitake, H., Bornscheuer, U.T., Schmid, R.D., Ikebururo, K., Yokoyama, K., Masuda, Y. and Karube, I., Development of a chemical vapor sensor using piezoelectric quartz crystals with coated unusual lipids, 340 (1997) 41

Yano, Y., Yokoyama, K., Tamiya, E. and Karube, I., Direct evaluation of meat spoilage and the progress of aging using biosensors, 320 (1996) 269

Yansheng, W., see Hongzhi, X., 319 (1996) 239

Yao, G., Li, K.A. and Tong, S.Y., Study on the interaction of protein with Sulfonazo III by Rayleigh light scattering technique and its application, 398 (1999) 319

Yao, S., see Liu, D., 307 (1995) 61

Yao, S., see Long, Y., 395 (1999) 33

Yao, S., see Zhang, H., 374 (1998) 31

Yao, S.-z., see Su, X.-l., 349 (1997) 143

Yao, S.Z., see Yang, X.R., 394 (1999) 119

Yao, S.Z., see Yang, X.Y., 378 (1999) 95 Yao, W., see Waterbury, R.D., 357 (1997) 99 Yap, M.G.S., see Soo, B.K., 351 (1997) 133

Yap, M.G.S., see Yu, L.H., 317 (1995) 223

Ya-Ping, S., Bin, M., Lawson, G.E., Bunker, C.E. and Rollins, H.W., Effects of photochemical reactions of pyrene in alcohol and aqueous solvent systems on spectroscopic analyses, 319 (1996) 379

Yarnitzky, C., see Wang, J., 385 (1999) 429

Yaropolov, A.I., Kharybin, A.N., Emnéus, J., Marko-Varga, G. and Gorton, L., Flow-injection analysis of phenols at a graphite electrode modified with co-immobilised laccase and tyrosinase, 308 (1995) 137

Yasuda, S., see Inukai, Y., 343 (1997) 275

Yasuda, S., see Inukai, Y., 371 (1998) 187

Yates III, L.M., Engebretson, R.R., Haakenson, T.J. and von Wandruszka, R., Immobilization of aqueous pyrene by dissolved humic acid, 356 (1997) 295

Yau, H.C.M., see Mengsu, Y., 351 (1997) 177

Yazynina, E.V., Zherdev, A.V., Dzantiev, B.B., Izumrudov, V.A., Gee, S.J. and Hammock, B.D., Microplate immunoassay technique using polyelectrolyte carriers: kinetic studies and application to detection of the herbicide atrazine, 399 (1999) 151

Ye, B., see Sun, Y., 363 (1998) 75

Ye, D., see Li, D.H., 389 (1999) 85

Ye, J., see He, P., 337 (1997) 217

Ye, J., see Jin, W., 382 (1999) 33

Ye, Y., see Ali, A., 392 (1999) 283

Ye, Y.H., see Zhang, X.X., 392 (1999) 175

Yebra, M.C., Gallego, M. and Valcárcel, M., Precipitation flowinjection method for the determination of saccharin in mixtures of sweeteners, 308 (1995) 275

Yebra, M.C., Gallego, M. and Valcárcel, M., Indirect flow-injection determination of tannins in wines and tea by atomic absorption spectrometry, 308 (1995) 357

Yebra-Biurrun, M.C., Bermejo-Barrera, A., Bermejo-Barrera, M.P. and Barciela-Alonso, M.C., Determination of trace metals in natural waters by flame atomic absorption spectrometry following on-line ion-exchange preconcentration, 303 (1995) 341

Yebra-Biurrun, M.C., see Cespón-Romero, R.M., 327 (1996) 37

Yee, H.J., see Park, J.K., 390 (1999) 83

Yegorova, N.L., see Pulyayeva, I.V., 357 (1997) 239

Yeh, T.-M., see Chang, H.-C., 340 (1997) 49

Yeo, L., see Gao, Z., 320 (1996) 229

Yeow, C.W., see Chao, Y.Z., 314 (1995) 121

Yeow, T.C.W., see Chow, C.W.K., 307 (1995) 15

Yeping, Z., Xiaozhong, L. and Lunte, C.E., Comparison of recovery and delivery in vitro for calibration of microdialysis probes, 316 (1995) 403

Yeung, E.S., see McNamara, K.P., 356 (1997) 75

Yi, B.Q., see Jiang, Z.T., 392 (1999) 247

Yi, L., see Fuyu, G., 342 (1997) 133

Yimin, Z., Jingzhong, Z. and Shaojun, D., Hydrazines probe of interaction of horseradish peroxidase with cryo-hydrogel, 353 (1997) 45

Yimin, Z., see Zhiqiang, G., 343 (1997) 49

Yi-Ming, L., Jian-Rong, M. and Toyo'oka, T., Enantiometric separation of di- and tri-peptides with chiral fluorescence labeling reagents by liquid chromatography, 314 (1995) 169 Yin, G., see Li, J., 373 (1998) 73

Yin, X., see Ali, A., 369 (1998) 215

Yin, X., see Ali, A., 392 (1999) 283

Yin, X., see Xiang, J.N., 384 (1999) 37

Yinfa, M., see Honglan, S., 312 (1995) 79

Ying Wang, H., see Kobayashi, T., 365 (1998) 81

Ying, C., see Zaizheng, Z., 350 (1997) 365

Ying, M., see Chen, Z., 367 (1998) 11

Ying, T., see Liu, H., 358 (1998) 137

Ying, W., Guoyi, Z. and Erkang, W., Electrochemical behavior of FAD at a gold electrode studied by electrochemical quartz crystal microbalance, 338 (1997) 97

Ying-Guang, W., see Ai-Jun, T., 322 (1996) 91

Yipeng, S., see Changqing, S., 312 (1995) 207

Yiqiu, Y., see Hua, L., 321 (1996) 97

Yiu, S.L., see Wing, H.C., 351 (1997) 197

Yi-Zeng, L., see Yu-Long, X., 313 (1995) 185

Yizhu, G., see Qing, D., 319 (1996) 71

Yokobori, K., see Hasebe, Y., 357 (1997) 51

Yokoi, K., Yamaguchi, A., Mizumachi, M. and Koide, T., Direct determination of trace concentrations of lead in fresh water samples by adsorptive cathodic stripping voltammetry of a lead-Calcein Blue complex, 316 (1995) 363

Yokose, S., see Kiba, N., 378 (1999) 169

Yokosu, H., see Prados, P., 344 (1997) 227

Yokota, K., see Saito, K., 378 (1999) 43

Yokoyama, K., Ikebukuro, K., Tamiya, E., Karube, I., Ichiki, N. and Arikawa, Y., Highly sensitive quartz crystal immunosensors for multisample detection of herbicides, 304 (1995) 139

Yokoyama, K., see Koizumi, A., 399 (1999) 63

Yokoyama, K., see Lee, T.-y., 302 (1995) 81

Yokoyama, K., see Nagata, R., 304 (1995) 157

Yokoyama, K., see Sasaki, S., 347 (1997) 275

Yokoyama, K., see Shimohigoshi, M., 303 (1995) 295

Yokoyama, K., see Yano, K., 340 (1997) 41

Yokoyama, K., see Yano, Y., 320 (1996) 269

Yokoyama, T., Akamatsu, T., Ohji, K. and Zenki, M., Capillary electrophoretic separation of several transition-metal ions as their complexes with 1,10-phenanthroline derivatives and its application to the determination of copper in duralmin alloys, 364 (1998)

Yokoyama, T., Nakano, K. and Zenki, M., Specific separation of nickel ion with bathophenanthroline disulfonic acid by capillary zone electrophoresis, 396 (1999) 117

Yokoyama, T., Tashiro, K., Murao, T., Yanase, A., Nishimoto, J. and Zenki, M., Determination of complex formation constants for Cu(II)-Alizarin complexone with amines by capillary zone electrophoresis, 398 (1999) 75

Yonehara, N., see Tomiyasu, T., 319 (1996) 199

Yonehara, N., see Tomiyasu, T., 320 (1996) 217

Yonehara, N., see Tomiyasu, T., 394 (1999) 55

Yong Yun, S., see Poplawski, M.E., 355 (1997) 249

Yong, C., Cabañas, M., Fernández-Turiel, J.L., Abalos, M. and Bayona, J.M., On-line preconcentration of selenium(IV) and selenium(VI) in aqueous matrices followed by liquid chromatography-inductively coupled plasma mass spectrometry determination, 314 (1995) 183

Yong, C., Jaffé, R., Alli, A. and Jones, R.D., Determination of organomercury compounds in aqueous samples by capillary gas chromatography-atomic fluorescence spectrometry following solid-phase extraction, 334 (1996) 251

Yong, H.C., see Shi, O., 337 (1997) 165

Yong, H.C., Siems, W.F. and Hill, H.H., Fourier transform electrospray ion mobility spectrometry, 334 (1996) 75

Yong, P., Eccles, H. and Macaskie, L.E., Determination of uranium, thorium and lanthanum in mixed solutions using simultaneous spectrophotometry, 329 (1996) 173

Yongcheng, L., Haiying, L., Jianghong, Q., Jiaqi, D. and Tongyin, Y., Regenerated silk fibroin membrane as immobilization matrix for peroxidase and fabrication of a sensor for hydrogen peroxide utilizing methylene blue as electron shuttle, 316 (1995) 65

Yongcheng, L., see Haiying, L., 329 (1996) 97

Yongde, Z. and Jinyuan, M., The 2.5th order differential voltammetric determination of phenol with a composite carbon paste/ polyamide electrode, 353 (1997) 71

Yongli, C., see Longdi, L., 341 (1997) 241

Yongming, L., see Benling, G., 304 (1995) 115

Yongnian, N., Jieling, B. and Ling, J., Simultaneous adsorptive voltammetric analysis of mixed colorants by multivariate calibration approach, 329 (1996) 65

Yongnian, N., Kokot, S., Selby, M. and Hodgkinson, M., Simultaneous polarographic analysis of pyrazine and its methyl derivatives by iterative target transformation factor analysis, 316 (1995)

Yongqin, M., see Honglan, S., 312 (1995) 79

Yongsheng, B., see Bo, H., 312 (1995) 329

Yongsheng, C., Jiansheng, H., Barnard, W. and Yuzhuo, L., Photoinduced dimerization of thymine in microemulsion for UVB radiation exposure measurements, 318 (1995) 103

Yongzhong, L., see Dezhong, L., 313 (1995) 229

Yoon Eom, T., see Heon Lee, C., 382 (1999) 199

Yoon, H.C., see Min-Chol, S., 329 (1996) 223

Yordanov, N.D. and Genova, B., Analysis of some non-linear effects in quantitative electron paramagnetic resonance spectrometry. Non-linear effects due to the use of cavities with TE102 and TM<sub>110</sub> modes, 353 (1997) 99

Yoshida, D., see Kinoshita, H., 303 (1995) 301

Yoshida, Y., Matsui, M., Maeda, K. and Kihara, S., Physicochemical understanding of the selectivity at an ion selective electrode of the liquid membrane type and relation between the selectivity and distribution ratios in the ion-pair extraction, 374 (1998) 269

Yoshida, Y., Matsui, M., Shirai, O., Maeda, K. and Kihara, S., Evaluation of distribution ratio in ion pair extraction using fundamental thermodynamic quantities, 373 (1998) 213

Yoshida, Z., see Kitatsuji, Y., 387 (1999) 181

Yoshikawa, K., see Morishima, K., 365 (1998) 273

Yoshikawa, M., Fujisawa, T., Izumi, J.i., Kitao, T. and Sakamoto, S., Molecularly imprinted polymeric membranes involving tetrapeptide EQKL derivatives as chiral-recognition sites toward amino acids, 365 (1998) 59

Yoshimura, K., see Matsuoka, S., 317 (1995) 207

Yoshimura, M., see Nohta, H., 344 (1997) 233

Yoshimura, M., see Terato, H., 365 (1998) 183

Yoshimura, T., see Kurosawa, T., 365 (1998) 249

Yoshimura, Y., see Kubo, H., 389 (1999) 89

Yoshimura, Y., see Watanabe, T., 341 (1997) 257

Yoshinaga, M. and Tanaka, M., Enantiomeric separation of dansylamino acids by capillary zone electrophoresis with selectively methylated γ-cyclodextrin derivatives, 316 (1995) 121

Yoshioka, M., see Darwish, I., 365 (1998) 121

Yoshioka, M., see Hirose, K., 365 (1998) 129

Yoshioka, M., see Hirose, K., 365 (1998) 137

Yoshioka, N., see Hisamoto, H., 373 (1998) 271

Yoshitake, H., see Yano, K., 340 (1997) 41

Yoshitake, T., see Ishida, J., 365 (1998) 227

Yoshizuka, K., see Inoue, K., 388 (1999) 209

Yotsuyanagi, T., see Igarashi, S., 323 (1996) 63

You, J., Fan, X., Zhu, Q. and Su, Y., Liquid chromatographic determination of amino acids and peptides by pre-column fluorescence derivatization with N-hydroxysuccinimidyl-α-(9-acridine)-acetate, 367 (1998) 69

You, J., see Fan, X., 367 (1998) 81

You, J., Sun, H., Lao, W. and Ou, Q., Fluorescence properties of carbazole-9-yl-acetyl chloride and its application for the simultaneous determination of amino acids and biogenic amines via liquid chromatography with fluorescence detection, 382 (1999) 51

You, J., Sun, X., Lao, W., Ou, Q. and Jiang, D., Derivatization of alcohols using acridone-9-N-acetyl-benzene-disulfonate as a condensation agent and its application for the determination of volatile alcohols in human plasma by liquid chromatography with fluorescence detection, 391 (1999) 43

Young, D., Thomas, C.L.P., Breach, J., Brittain, A.H. and Eiceman, G.A., Extending the concentration and linear dynamic range of ion mobility spectrometry with a sheath flow inlet, 381 (1999)

Young, T.M., see Adeloju, S.B., 302 (1995) 225

Young, T.M., see Adeloju, S.B., 381 (1999) 207

Youngquist, M.G.Y., see Weiss, P.S., 307 (1995) 355

Yperman, J., Maes, I.I., Van den Rul, H., Mullens, S., Van Aelst, J., Franco, D.V., Mullens, J. and Van Poucke, L.C., Sulphur group analysis in solid matrices by atmospheric pressure-temperature programmed reduction, 395 (1999) 143

Yperman, J., see De Backer, A., 334 (1996) 103

Ysambertt, F., see Márquez, N., 395 (1999) 343

Yu Gorlova, E., see Zaitsev, V.N., 379 (1999) 11

Yu, A.-M. and Chen, H.-Y., Electrocatalytic oxidation and determination of ascorbic acid at poly(glutamic acid) chemically modified electrode, 344 (1997) 181

Yu, H., Use of an immunomagnetic separation-fluorescent immunoassay (IMS-FIA) for rapid and high throughput analysis of environmental water samples, 376 (1998) 77

Yu, L.H., Foellmer, T.J., Koon, C.A., Soo, B.K. and Yap, M.G.S., Characterization and application of an on-line flow injection analysis/wall-jet electrode system for glucose monitoring during fermentation, 317 (1995) 223

Yu, L.H., see Soo, B.K., 351 (1997) 133

Yu, R., see Liu, W., 383 (1999) 299

Yu, R., see Xia, S., 382 (1999) 151

Yu, R.Q., see Chen, Z.P., 381 (1999) 233

Yu, R.Q., see Chu, X., 373 (1998) 29

Yu, R.-Q., see Gao, D., 302 (1995) 263

Yu, R.-Q., see Jiang, J.-H., 336 (1996) 209

Yu, R.Q., see Jiang, J.H., 354 (1997) 263

Yu, R.Q., see Kang, T.F., 354 (1997) 343

Yu, R.Q., see Kang, T.F., 356 (1997) 245

Yu, R.Q., see Li, Y., 388 (1999) 161 Yu, R.Q., see Li, Z.Q., 382 (1999) 165

Yu, R.-Q., see Lin, Z., 344 (1997) 29

Yu, R.-Q., see Liu, D., 338 (1997) 209

Yu, R.Q., see Wu, Z.Y., 398 (1999) 57 Yu, R.-Q., see Xia, C., 336 (1996) 185

Yu, R.Q., see Xiang, J.N., 384 (1999) 37

Yu, R.Q., see Zhang, L., 370 (1998) 65

Yu, Z., see Longdi, L., 341 (1997) 241

Yuan, F., see Xia, S., 382 (1999) 151

Yuan, H., see Xia, S., 382 (1999) 151

Yuan, Y.J., see Farrell, J.R., 334 (1996) 193

Yuan, Z., see Ma, Z., 389 (1999) 213

Yuan, Z., Zhu, M. and Han, S., Supramolecular inclusion complex formation and application of β-cyclodextrin with heteroanthracene ring cationic dyes, 389 (1999) 291

Yuan-Feng, W., see Eiceman, G.A., 306 (1995) 21

Yuan-Feng, W., see Snyder, A.P., 316 (1995) 1

Yuanjin, X., Changyin, L., Kang, C., Lihua, N. and Shouzhuo, Y., A novel bulk acoustic wave sensor for dissolved ammonia, 325 (1996)65

Yuanjin, X., Shihui, S., Changyin, L., Lihua, N. and Shouzhuo, Y., Ammonia selective bulk acoustic wave sensor based on neutral ionophores, 312 (1995) 9

Yuan-Shih, T., see Jyh-Myng, Z., 332 (1996) 59

Yuasa, Y., see Miyake, S., 376 (1998) 97

Yuasa, Y., see Morimune, K., 376 (1998) 37

Yuasa, Y., see Watanabe, S., 376 (1998) 93

Yuchi, A., Matsunaga, K., Niwa, T., Terao, H. and Wada, H., Separation and preconcentration of fluoride at the ng ml-1 level with a polymer complex of zirconium(IV) followed by potentiometric determination in a flow system, 388 (1999) 201

Yuchi, A., Sakurai, J., Tatebe, A., Hattori, H. and Wada, H., Performance of arylboronic acids as ionophore for inorganic anions studied by fluorometry and potentiometry, 387 (1999)

Yuen, F.S.Y., see Lee, A.W.M., 339 (1997) 123

Yuexia, Z. and Guanhua, Y., Study of the enhancement of the boronberyllon III system by anion surfactant using oscillopolarography, 309 (1995) 63

Yue-Xian, H., see Hui-Min, M., 334 (1996) 213

Yufeng, W., see Hengwu, C., 353 (1997) 181

Yuh-Jen, Y., see Hueih-Jen, Y., 312 (1995) 141

Yujun, Y., Allen, H.E., Huang, C.P. and Sanders, P.F., Interaction of Hg(II) with soil-derived humic substances, 341 (1997) 73

Yukizawa, T., see Nohta, H., 344 (1997) 233

Yukui, Z., see Hailin, W., 342 (1997) 159

Yukui, Z., see Hanfa, Z., 310 (1995) 461

Yul Suh, M., see Heon Lee, C., 382 (1999) 199

Yu-Long, X., Baeza-Baeza, J.J. and Ramis-Ramos, G., Assessment of peak purity in liquid chromatography using condition index and singular value evolving profiles, 317 (1995) 17

Yu-Long, X., Baeza-Baeza, J.J. and Ramis-Ramos, G., A comparative study of several chemometric methods applied to the treatment of two-way kinetic-spectral data for mixture resolution, 321 (1996)75

Yu-Long, X., Yi-Zeng, L., Jian-Hui, J. and Ru-Qin, Y., Robust regression used for the treatment of partial non-linearity in multivariate calibration, 313 (1995) 185

Yumin, D., see Houping, H., 309 (1995) 271

Yumin, D., see Houping, H., 318 (1995) 63

Yun'e, Z., see Houping, H., 309 (1995) 271

Yun'e, Z., see Houping, H., 318 (1995) 63

Yun'e, Z., see Zuyun, H., 374 (1998) 99

Yun, W., see Dong-mei, Z., 329 (1996) 41

Yun, W., see Mikac, N., 326 (1996) 57

Yunbao, X., see Lu, J., 349 (1997) 17

Yun-Sheng, H. and Crouch, S.R., A stopped-flow/continuous-flow method for kinetic determinations, 309 (1995) 277

Yun-Xiang, C., see Huai-Na, L., 317 (1995) 353

Yuping, Z. and Dawe, R., Effect of organic acids on the determination of carbonate species in solutions, 318 (1996) 239

Yurek, R., see Springsteen, A., 380 (1999) 155

Yusoff, A. Rahim H.M., see Fogg, A.G., 362 (1998) 235

Yuzhi, F., see Shenghui, L., 335 (1996) 239

Yuzhi, F., see Xiaoming, F., 329 (1996) 49

Yuzhuo, L., see Jiansheng, H., 311 (1995) 115

Yuzhuo, L., see Schutt, W.S., 319 (1996) 369

Yuzhuo, L., see Yongsheng, C., 318 (1995) 103

### Z

Zafran, N., see Novič, M., 348 (1997) 101

Zagatto, E.A., Reis, B.F., Oliveira, C.C., Sartini, R.P. and Arruda, M.A.Z., Evolution of the commutation concept associated with the development of flow analysis, 400 (1999) 249

Zagatto, E.A., see Couto, C.M., 366 (1998) 155

Zagatto, E.A., see Honorato, R.S., 396 (1999) 91

Zagatto, E.A., see Lapa, R.A., 366 (1998) 209

Zagatto, E.A., see Lima, J.L., 356 (1997) 259

Zagatto, E.A., see Luca, G.C., 366 (1998) 193

Zagatto, E.A., see Maniasso, N., 366 (1998) 87

Zagatto, E.A., see Sartini, R.P., 366 (1998) 119

Zagatto, E.A., see Vieira, J.A., 366 (1998) 257

Zagatto, E.A.G., see Araújo, A.N., 310 (1995) 447

Zagatto, E.A.G., see Brienza, S.M.B., 308 (1995) 269 Zagatto, E.A.G., see Lapa, R.A.S., 351 (1997) 223

Zagatto, E.A.G., see Maniasso, N., 331 (1996) 17 Zagatto, E.A.G., see Martelli, P.B., 308 (1995) 397

Zagatto, E.A.G., see Martelli, P.B., 317 (1995) 239

Zagatto, E.A.G., see Neto, J.A.G., 306 (1995) 343

Zagatto, E.A.G., see Neto, J.A.G., 308 (1995) 439

Zagatto, E.A.G., see Oliveira, C.C., 332 (1996) 173

Zagatto, E.A.G., see Oliveira, C.C., 350 (1997) 31

Zagatto, E.A.G., see Sicilia, D., 392 (1999) 29

Zagatto, E.A.G., see Silva, E.C., 319 (1996) 153

Zagatto, E.A.G., see Silva, F.V., 370 (1998) 39

Zagorska, M., see Grummt, U.W., 357 (1997) 253

Zahir, M.H. and Ab Ghani, S., Fabrication of directly polymerized 4-vinylpyridine onto a pencil 2B graphite paste electrode for glucose monitoring, 354 (1997) 351

Zaitsev, V.N., V. Kholin, Y., Yu Gorlova, E. and Khristenko, I.V., Silica chemically modified with N-benzoyl-N-phenylhydroxylamine in chemisorption of hydrogen and metal ions, 379 (1999) 11

Zaitsu, K., see Ohba, Y., 365 (1998) 233

Zaizheng, Z., Jie, Z., Ying, C., Chuanhong, T. and Jidian, Z., Studies on monoxide emission spectrometry of rare-earth elements. IV. Simultaneous determination of Sm, Eu, Gd in Sm-Eu-Gd concentrates by the dual wavelength method, 350 (1997) 365

Zaki, M.T.M., Abdel-Rahman, R.M. and El-Sayed, A.Y., Use of arylidenerhodanines for the determination of Cu(II), Hg(II) and CN-, 307 (1995) 127

Zambonin, C.G., Guerrieri, A. and Palmisano, F., Simultaneous determination of 5'-deoxy-5-fluorouridine, 5-fluorouracil and 5,6-dihydro-5-fluorouracil in plasma by gas chromatographymass spectrometry, 329 (1996) 143

Zambonin, P.G., see De Benedetto, G.E., 326 (1996) 149

Zambonin, P.G., see De Benedetto, G.E., 389 (1999) 197

Zamora, L. Lahuerta, see Icardo, M. Catalá, 398 (1999) 311

Zamzow, H., Coale, K.H., Johnson, K.S. and Sakamoto, C.M., Determination of copper complexation in seawater using flow injection analysis with chemiluminescence detection, 377 (1998)

Zanoni, M. Valnice B., see Ferreira, V.S., 367 (1998) 255

Zanoni, M.V.B., Carneiro, P.A., Furlan, M., Duarte, E.S., Guaratini, C.C.I. and Fogg, A.G., Determination of the vinylsulphone azo dye, remazol brilliant orange 3R, by cathodic stripping voltammetry, 385 (1999) 385

Zanoni, M.V.B., Fogg, A.G., Barek, J. and Zima, J., Electrochemical investigations of reactive dyes; polarographic determination of anthraquinone-based chlorotriazine dyes, 315 (1995) 41

Zanoni, M.V.B., Fogg, A.G., Barek, J. and Zima, J., Electrochemical investigations of reactive dyes; cathodic stripping voltammetric determination of anthraquinone-based chlorotriazine dves at a hanging mercury drop electrode, 349 (1997) 101

Zanoni, M.V.B., see Barek, J., 320 (1996) 31

Zanoni, M.V.B., see Ferreira, V.S., 351 (1997) 105

Zanoni, M.V.B., see Ferreira, V.S., 384 (1999) 159

Zanoni, M.V.B., see Fogg, A.G., 362 (1998) 235

Zanzottera, E., see Carrer, I., 308 (1995) 20

Zapardiel, A., see Chicharro, M., 379 (1999) 81

Zapardiel, A., see Hernández, L., 336 (1996) 85

Zapardiel, A., see Perlado, J.C., 305 (1995) 83

Zargharian, R., see Pournaghi-Azar, M.H., 328 (1996) 33

Zaruk, D., Alaee, M., Sverko, E. and Comba, M., Occurrence of triazine herbicides and metolachlor in the Niagara River and other major tributaries draining into Lake Ontario, 376 (1998) 113

Zawisza, I., see Jarzębińska, A., 396 (1999) 1

Zdráhal, Z., see Mikuška, P., 316 (1995) 261

Zecevic, M., see Agatonovic-Kustrin, S., 364 (1998) 265

Zečević, N., see Grahek, Z., 399 (1999) 237

Zechang, L., see Dazhong, S., 340 (1997) 55

Zeevaart, J.R., see Cukrowski, I., 379 (1999) 217

Zegers, B.N., de Brouwer, J.F.C., Poppema, A., Lingeman, H. and Brinkman, U.A.T., Electron-capture detection in reversed-phase liquid chromatography using packed-capillary columns, 304 (1995) 47

Zein, R., Munaf, E., Takeuchi, T. and Miwa, T., Microcolumn ion chromatography of inorganic UV-absorbing anions using bovine serum albumin as stationary phases, 335 (1996) 261

Zein, R., see Munaf, E., 334 (1996) 39

Zein, R., see Munaf, E., 341 (1997) 225

Zein1, R., see Munaf, E., 379 (1999) 33

Zejnilović, R.M., Blagojević, N., Jović, V.D. and Despić, A.R., Direct stripping voltammetric method for the determination of small concentrations of one component in binary alloys, 327 (1996) 107

Zelano, V., see Gulmini, M., 329 (1996) 33

Zelano, V., see Gulmini, M., 358 (1998) 195

Zelić, M., see Pižeta, I., 319 (1996) 31

Zellers, E.T., see Groves, W.A., 371 (1998) 131

Zembrzuski, W., see Lukaszweski, Z., 318 (1996) 159

Zen, J.-M. and Ting, Y.-S., Simultaneous determination of caffeine and acetaminophen in drug formulations by square-wave voltammetry using a chemically modified electrode, 342 (1997) 175

Zen, J.M., Chen, I.L. and Shih, Y., Voltammetric determination of serotonin in human blood using a chemically modified electrode, 369 (1998) 103

Zen, J.M., Jou, J.J. and Senthil Kumar, A., A sensitive voltammetric method for the determination of parathion insecticide, 396 (1999) 39

Zen, J.M., Wang, W.M. and Ilangovan, G., Adsorptive potentiometric stripping analysis of dopamine on clay-modified electrode, 372 (1998) 315

Zeng, Y. and Garland, M., An improved algorithm for estimating pure component spectra in exploratory chemometric studies based on entropy minimization, 359 (1998) 303

Zengbiao, L. and Rutan, S.C., Solvatochromic studies of the surface polarity of silica under normal-phase conditions, 312 (1995) 127

Zenki, M., see Yokoyama, T., 364 (1998) 75

Zenki, M., see Yokoyama, T., 396 (1999) 117

Zenki, M., see Yokoyama, T., 398 (1999) 75

Zerihun, T., see Gründler, P., 305 (1995) 232

Zhai, J., see Zhang, J., 378 (1999) 177

Zhai, J.J., see Tao, Z.Y., 395 (1999) 199

Zhalovannaya, S.V., see Zolotov, Y.A., 308 (1995) 386 Zhanen, Z., see Chenghong, L., 332 (1996) 73

Zhang, C., Huang, J., Zhang, Z. and Aizawa, M., Flow injection chemiluminescence determination of catecholamines with electrogenerated hypochlorite, 374 (1998) 105

Zhang, C., see Huang, Y., 391 (1999) 95

Zhang, C., see Qin, W., 361 (1998) 201

Zhang, C., Zhou, G., Zhang, Z. and Aizawa, M., Highly sensitive electrochemical luminescence determination of thiamine, 394 (1999) 165

Zhang, D.-q., see Sun, H.-w., 353 (1997) 79

Zhang, D.q., Yang, L.l. and Sun, H.w., Determination of mercury by cold vapour atomic absorption spectrometry with derivative signal processing, 395 (1999) 173

Zhang, F., see Chen, G.N., 375 (1998) 269

Zhang, G., see Lin, C., 392 (1999) 291

Zhang, G., see Wu, J., 327 (1996) 133

Zhang, G., see Yang, J., 363 (1998) 105

Zhang, H. and Davison, W., Diffusional characteristics of hydrogels used in DGT and DET techniques, 398 (1999) 329

Zhang, H., Davison, W., Gadi, R. and Kobayashi, T., In situ measurement of dissolved phosphorus in natural waters using DGT, 370 (1998) 29

Zhang, H., see Chang, L.Y., 368 (1998) 243

Zhang, H., see Mark, Jr., H.B., 385 (1999) 281

Zhang, H., see Wang, C., 361 (1998) 133

Zhang, H., Tan, H., Wang, R., Wei, W. and Yao, S., Immobilization of DNA on silver surface of bulk acoustic wave sensor and its application to the study of UV-C damage, 374 (1998) 31

Zhang, H.M., Guo, X.Q., Zhao, Y.B., Wang, D.Y. and Xu, J.G., Study on the dimer-monomer equilibrium of a fluorescent dye and its application in nucleic acids determination, 361 (1998) 9

Zhang, H.R., Zhang, J., Wei, Y.S., Jin, W.J. and Liu, C.S., Study of new facile deoxygenation methods in cyclodextrin induced room temperature phosphorescence, 357 (1997) 119

Zhang, H.S., Zhang, J.F., Wang, H. and Li, X.Y., Synthesis and analytical application of 2,6-dichloroarsenazo as a new chromogenic reagent for bismuth, 380 (1999) 101

Zhang, J., Li, B., Wang, Z., Cheng, G. and Dong, S., Functionalized inorganic-organic composite material derivated by sol-gel for construction of mediated amperometric hydrogen peroxide biosensor, 388 (1999) 71

Zhang, J., see Tao, Z.Y., 395 (1999) 199

Zhang, J., see Zhang, H.R., 357 (1997) 119

Zhang, J., Zhai, J., Zhao, F. and Tao, Z., Study of soil humic substances by cross-polarization magic angle spinning <sup>13</sup>C nuclear magnetic resonance and pyrolysis-capillary gas chromatography, 378 (1999) 177

Zhang, J., Zhang, Z., Chen, Y. and Chen, H., Studies on monoxide flame emission spectrometry of rare-earth elements. Part 2. Determination of yttrium in rare-earth concentrates by the dual wavelength method, 344 (1997) 291

Zhang, J.F., see Zhang, H.S., 380 (1999) 101

Zhang, J.J., see Zhao, G.C., 394 (1999) 337

Zhang, L., Liang, Y.Z., Jiang, J.H., Yu, R.Q. and Fang, K.T., Uniform design applied to nonlinear multivariate calibration by ANN, 370 (1998) 65

Zhang, L., see Seitz, W. Rudolf, 400 (1999) 55

Zhang, L., see Tan, A., 388 (1999) 219

Zhang, L., see Wang, A., 394 (1999) 309

Zhang, M., see Liu, Z., 392 (1999) 135

Zhang, Q., see Jie, N., 359 (1998) 87

Zhang, S., see Killard, A.J., 400 (1999) 109

Zhang, S., see Sun, W., 388 (1999) 103

Zhang, S., Sun, W., Xian, Y., Zhang, W., Jin, L., Yamamoto, K., Tao, S. and Jin, J., Multichannel amperometric detection system for liquid chromatography to assay the thiols in human whole blood using the platinum microelectrodes chemically modified by copper tetraaminophthalocyanine, 399 (1999) 213

Zhang, S., Sun, W., Zhang, W., Qi, W., Jin, L., Yamamoto, K., Tao, S. and Jin, J., Determination of thiocompounds by liquid chromatography with amperometric detection at a Nafion/indium hexacyanoferrate film modified electrode, 386 (1999) 21

Zhang, W., Chang, H. and Rechnitz, G.A., Dual-enzyme fiber optic biosensor for pyruvate, 350 (1997) 59

Zhang, W., Fakler, A., Demuth, C. and Spichiger, U.E., Comparison of different methods for determining the selectivity coefficient using a magnesium-selective electrode, 375 (1998) 211

Zhang, W., see Lai, E.P., 364 (1998) 63

Zhang, W., see Sun, Y., 363 (1998) 75

Zhang, W., see Zhang, S., 386 (1999) 21

Zhang, W., see Zhang, S., 399 (1999) 213

Zhang, X., Cornelis, R., De Kimpe, J. and Mees, L., Arsenic speciation in serum of uraemic patients based on liquid chromatography with hydride generation atomic absorption spectrometry and on-line UV photo-oxidation digestion, 319 (1996) 177

Zhang, X., Ogorevc, B., Rupnik, M., Kreft, M. and Zorec, R., Cathophoresis paint insulated carbon fibre ultramicro disc electrode and its application to in vivo amperometric monitoring of quantal secretion from single rat melanotrophs, 378 (1999) 135

Zhang, X., see Huang, Y., 391 (1999) 95

Zhang, X., see Rao, Y., 396 (1999) 273

Zhang, X., see Wang, J., 395 (1999) 11

Zhang, X., see Zhang, Z., 347 (1997) 325

Zhang, X.R., Baeyens, W.R.G., Van der Weken, G., Calokerinos, A.C. and Imai, K., Chemiluminescence determination of some local anaesthetics, 303 (1995) 137

Zhang, X.R., Baeyens, W.R.G., Van der Weken, G., Calokerinos, A.C. and Nakashima, K., Chemiluminescence determination of captopril based on a Rhodamine B sensitized cerium(IV) method, 303 (1995) 121

Zhang, X.X., Hong, F., Chang, W.B., Ci, Y.X. and Ye, Y.H., Enantiomeric separation of promethazine and D,L-α-amino-β-[4-(1,2-dihydro-2-oxo-quinoline)] propionic acid drugs by capillary zone electrophoresis using albumin as chiral selectors, 392 (1999) 175

Zhang, X.X., see Hong, F., 373 (1998) 207

Zhang, Y., Huang, B. and Cheng, J., On-line indirect chemiluminescence detection in capillary electrophoresis, 363 (1998) 157

Zhang, Y., see Liu, Z., 378 (1999) 73

Zhang, Y., see Nivens, D.A., 376 (1998) 235

Zhang, Y.N., see Zhou, J., 381 (1999) 17

Zhang, Y.Q., Shen, W.D., Gu, R.A., Zhu, J. and Xue, R.Y., Amperometric biosensor for uric acid based on uricase-immobilized silk fibroin membrane, 369 (1998) 123

Zhang, Z., Baeyens, W.R.G., Zhang, X., Zhao, Y. and Van Der Weken, G., Chemiluminescence detection coupled to liquid chromatography for the determination of penicillamine in human urine, 347 (1997) 325

Zhang, Z., see Huang, Y., 391 (1999) 95

Zhang, Z., see Lu, J., 304 (1995) 369

Zhang, Z., see Qin, W., 357 (1997) 127

Zhang, Z., see Qin, W., 361 (1998) 201

Zhang, Z., see Qin, W., 372 (1998) 357

Zhang, Z., see Wei, S., 322 (1996) 167

Zhang, Z., see Xiong, G., 371 (1998) 97

Zhang, Z., see Zhang, C., 374 (1998) 105

Zhang, Z., see Zhang, C., 394 (1999) 165

Zhang, Z., see Zhang, J., 344 (1997) 291

Zhang, Z.Q., Chen, S.Z., Li, Y.F. and Zhu, M.F., Preconcentration with membrane cell and adsorptive polarographic determination of cyanides in air, 382 (1999) 283

Zhang-Hua, L. and Mottola, H.A., Determination of CO<sub>2</sub>(g) by enhancement of luminol-cobalt(II) phthalocyanine chemiluminescence: Analysis of atmospheric air and human breath, 329 (1996) 305

Zhao, B., see Ma, Z., 389 (1999) 213

Zhao, F., see Zhang, J., 378 (1999) 177

Zhao, F.L., see Wang, Y.T., 396 (1999) 75

Zhao, G.C., Zhu, J.J., Zhang, J.J. and Chen, H.Y., Voltammetric studies of the interaction of methylene blue with DNA by means of β-cyclodextrin, 394 (1999) 337

Zhao, H., see Cui, H., 362 (1998) 151

Zhao, H., see Killard, A.J., 400 (1999) 109

Zhao, H., see Wu, X., 374 (1998) 61

Zhao, M., see Jiang, Z., 354 (1997) 359

Zhao, P. and Cai, W.J., pH polymeric membrane microelectrodes based on neutral carriers and their application in aquatic environments, 395 (1999) 285

Zhao, S., Xia, X. and Hu, Q., Complex formation of the new reagent 5-(6-methoxy-2-benzothiazoleazo)-8-aminoquinoline with cobalt and nickel for their sensitive spectrophotometric detection, 391 (1999) 365

Zhao, T., Hu, X., Cheng, J. and Lu, X., Use of calix[4]arene to separate positional isomers in capillary electrophoresis, 358 (1998) 263

Zhao, X., Jin, W. and Wang, X., Determination of trace titanium in KH<sub>2</sub>PO<sub>4</sub> by differential pulse adsorption voltammetry, 306 (1995) 225

Zhao, X., see Jin, W., 347 (1997) 263

Zhao, Y., Cao, Q.E., Hu, Z. and Xu, Q., Synthesis of a new triazene reagent and its application for the determination of silver(I) by the Rayleigh light-scattering, 388 (1999) 45

Zhao, Y., see Zhang, Z., 347 (1997) 325

Zhao, Y.-B., see Guo, X.-Q., 343 (1997) 109

Zhao, Y.-B., see Li, W.-Y., 340 (1997) 291

Zhao, Y.-B., see Xu, J.-G., 302 (1995) 207

Zhao, Y.-B., see Yan, Y., 306 (1995) 307

Zhao, Y.B., see Zhang, H.M., 361 (1998) 9

Zhao, Y.-B., Wang, D.-Y., Guo, X.-Q. and Xu, J.-G., Determination of DNA and RNA by their quenching effect on the fluorescence of the Tb<sup>3+</sup>-Tiron complex, 353 (1997) 329

Zhao, Y.D., Pang, D.W., Hu, S., Wang, Z.L., Cheng, J.K., Qi, Y.P., Dai, H.P., Mao, B.W., Tian, Z.Q., Luo, J. and Lin, Z.H., DNAmodified electrodes Part 3.: spectroscopic characterization of DNA-modified gold electrodes, 388 (1999) 93

Zhao, Z., see Wang, J., 396 (1999) 33

Zhao, Z., see Wu, X., 374 (1998) 61

Zhao, Z.F., see Chen, G.N., 375 (1998) 269

Zhao-Hui, L., Guo-Li, S., Qing, M. and Ru-Qin, Y., A thyroidstimulating hormone immuno-electrode, 325 (1996) 87

Zhaolun, F., see Xuezhu, L., 316 (1995) 329

Zhaolun, F., Shukun, X. and Xuesheng, B., A new flow injection single-standard calibration method for flame atomic absorption spectrometry based on dilution by microsample dispersion, 326 (1996) 49

Zhe, Z., see Xin, Z., 318 (1996) 181

Zhe-ming, N., see De-qiang, Z., 330 (1996) 53

Zhe-ming, N., Zhu, R. and Mei, L., Minimization of phosphate interference in the direct determination of arsenic in urine by electrothermal atomic absorption spectrometry, 334 (1996) 177

Zhen, L., see Gongwei, Z., 350 (1997) 359

Zheng, F.Z., see Guo, N.C., 341 (1997) 251

Zheng, G.-D., see Gao, D., 302 (1995) 263

Zheng, H., see Chen, Q.y., 381 (1999) 175

Zheng, P., Harrington, P.B., Craig, A. and Fleming, R., Variable alignment of high resolution data by cluster analysis, 310 (1995) 485

Zheng-liang, Z., Rios, A. and Valcárcel, M., An automated flow-reversal injection/liquid-liquid extraction approach to the direct determination of total free fatty acids in olive oils, 318 (1996) 187

Zheng-Qi, Z., Hui, L., Hong, Z. and Yan-Fei, L., Simultaneous cathodic stripping voltammetric determination of mercury, cobalt, nickel and palladium by mixed binder carbon paste electrode containing dimethylglyoxime, 333 (1996) 119

Zherdev, A.V., Dzantiev, B.B. and Trubaceva, J.N., Homogeneous enzyme immunoassay for pyrethroid pesticides and their derivatives using bacillary alpha-amylase as label, 347 (1997) 131

Zherdev, A.V., see Yazynina, E.V., 399 (1999) 151

Zhi Huang, C., Fang Li, Y. and Dong Liu, X., Determination of nucleic acids at nanogram levels with safranine T by a resonance light-scattering technique, 375 (1998) 89

Zhi Huang, C., see Pu Liu, S., 379 (1999) 53

Zhicheng, G., see Liang, X., 322 (1996) 195

Zhide, H., see Hongwei, Z., 342 (1997) 59

Zhide, H., see Xingguo, C., 314 (1995) 213

Zhigulev, A.V., see Dmitrienko, S.G., 373 (1998) 131

Zhi-Liang, J., Mei-Xiu, Z. and Lin-Xiu, L., Catalytic spectrophotometric methods for the determination of oxalic acid, 320 (1996) 139

Zhiliang, J., Xuhong, L. and Aihui, L., Rapid spectrofluorimetric method for traces of gibberelin, 346 (1997) 249

Zhilong, G. and Zhujun, Z., An optosensor based on the fluorescence of metal complexes adsorbed on Chelex 100, 325 (1996) 201

Zhilong, G. and Zhujun, Z., An optosensor for riboflavin with C<sub>18</sub> silica gel as a substrate, 339 (1997) 161

Zhilong, G. and Zhujun, Z., Determination of tetracyclines with a modified β-cyclodextrin based fluorosensor, 351 (1997) 205

Zhiming, L., Xiaodan, X., Shaojun, D. and Erkang, W., Liquid chromatography-amperometric detection of nitrite using a polypyrrole modified glassy carbon electrode doped with tungstodiphosphate anion, 345 (1997) 147

Zhi-Qi, Z., Lou-Jun, G., Han-Ying, Z. and Qian-Guang, L., Catalytic simultaneous spectrophotometric determination of nitrite and nitrate with a flow injection system, 370 (1998) 59

Zhiqiang, G., Kok, S.S., Ng, A. and Yimin, Z., Determination of ascorbic acid in a mixture of ascorbic acid and uric acid at a chemically modified electrode, 343 (1997) 49

Zhixin, L., see Houping, H., 318 (1995) 63

Zhixin, L., see Xinguo, W., 325 (1996) 105

Zhixing, S., Xijun, C., Guangyao, Z., Xingyin, L. and Qiaosheng, P., Synthesis and efficiency of an epoxy-tannin chelating resin for preconcentrating and separating various rare elements, 310 (1995) 493

Zhong, C., Dan, X., Jian-Hui, J., Ji-Hong, W., Hui-Gai, L., Cheng-Jian, X., Xiao-Bing, Z. and Ru-Qin, Y., Mimicking the olfactory system by a thickness-shear-mode acoustic sensor array, 335 (1996) 117

Zhou, D.M., see Eggins, B.R., 347 (1997) 281

Zhou, G. and Pan, J., Polarographic and voltammetric behaviour of ofloxacin and its analytical application, 307 (1995) 49

Zhou, G., see Zhang, C., 394 (1999) 165

Zhou, H., see Shi, G., 386 (1999) 123

Zhou, J., Gong, G.Q., Zhang, Y.N., Qu, J.Q., Wang, L.F. and Xu, J.W., Quercetin-La(III) complex for the fluorimetric determination of nucleic acids, 381 (1999) 17

Zhou, J., He, X. and Li, Y., Binding study on 5,5-diphenylhydantoin imprinted polymer constructed by utilizing an amide functional group, 394 (1999) 353

Zhou, J., Heckert, D.M., Zuo, H., Lunte, C.E. and Lunte, S.M., Online coupling of in vivo microdialysis with capillary electrophoresis/electrochemistry, 379 (1999) 307

Zhou, X. and Arnold, M.A., Internal enzyme fiber-optic biosensors for hydrogen peroxide and glucose, 304 (1995) 147

Zhou, X., see Sun, Y., 363 (1998) 75

Zhou, X.C., Ng, S.C., Chan, H.S.O. and Li, S.F.Y., Piezoelectric sensor for detection of organic amines in aqueous phase based on a polysiloxane coating incorporating acidic functional groups, 345 (1997) 29

Zhou, X.H., see Li, M.X., 356 (1997) 225

Zhou, Y.X., see Li, Y.G., 382 (1999) 277

Zhu, C., see Wang, T., 306 (1995) 249

Zhu, J., see Beng Khoo, S., 373 (1998) 15

Zhu, J., see Wu, J., 327 (1996) 133

Zhu, J., see Zhang, Y.Q., 369 (1998) 123

Zhu, J.J., see Zhao, G.C., 394 (1999) 337

Zhu, L., Chen, C., Li, Y. and Ci, Y., Enhancement effect of Brij-35 on the hemin-catalyzed fluorogenic reaction between hydrogen peroxide and N,N'-dicyanomethyl-o-phenylenediamine, 369 (1998) 205

Zhu, L., see Wang, E., 357 (1997) 85

Zhu, M., Huang, X., Li, J. and Shen, H., Peroxidase-based spectrophotometric methods for the determination of ascorbic acid, norepinephrine, epinephrine, dopamine and levodopa, 357 (1997) 261

Zhu, M., see Yuan, Z., 389 (1999) 291

Zhu, M.F., see Zhang, Z.Q., 382 (1999) 283

Zhu, Q., see Fan, X., 367 (1998) 81

Zhu, Q., see Hrijac, J.A., 350 (1997) 221

Zhu, Q., see You, J., 367 (1998) 69

Zhu, Q.Z., Liu, F., Li, D.H., Xu, J.G., Su, W. and Huang, J., A novel polymer-mimetic enzyme immunoassay system based on thermal phase separating technique, 375 (1998) 177

Zhu, Q.Z., see Chen, M., 388 (1999) 11

Zhu, Q.z., see Chen, Q.y., 381 (1999) 175

Zhu, Q.Z., see Li, D.H., 389 (1999) 85

Zhu, Q.-Z., see Li, W.-Y., 340 (1997) 291

Zhu, Q.Z., Yang, H.H., Li, D.H. and Xu, J.G., Determination of nucleic acids using phosphin 3R as a fluorescence probe, 394 (1999) 177

Zhu, R. and Kok, W.T., Determination of trace metal ions by capillary electrophoresis with fluorescence detection based on post-column complexation with 8-hydroxyquinoline-5-sulphonic acid, 371 (1998) 269

Zhu, R., see Zhe-ming, N., 334 (1996) 177

Zhuang, H.S., see Chen, G.N., 375 (1998) 269

Zhuanhe, L., see Benling, G., 304 (1995) 115

Zhujun, Z., see Jianzhong, L., 318 (1996) 175

Zhujun, Z., see Zhilong, G., 325 (1996) 201

Zhujun, Z., see Zhilong, G., 339 (1997) 161

Zhujun, Z., see Zhilong, G., 351 (1997) 205

Zhujun, Z., Wei, Q. and Shuna, L., Chemiluminescence flow system for the monitoring of chromium(VI) in water, 318 (1995) 71

Zi, D.L., see Lee, A.W.M., 322 (1996) 99

Zicha, J., see Deyl, Z., 352 (1997) 257

Zilberman, I., see Litani-Barzilai, I., 339 (1997) 193

Zima, J., see Barek, J., 320 (1996) 31

Zima, J., see Barek, J., 356 (1997) 231

Zima, J., see Barek, J., 393 (1999) 141

Zima, J., see Fogg, A.G., 362 (1998) 235

Zima, J., see Zanoni, M.V.B., 315 (1995) 41

Zima, J., see Zanoni, M.V.B., 349 (1997) 101

Zimmer, H., see Mark, Jr., H.B., 385 (1999) 281

Zióek, A., see Wieteska, E., 330 (1996) 251

Zirino, A., see Hernández-Ayón, J. Martín, 394 (1999) 101

Zirino, A., see Wang, J., 310 (1995) 223

Zissis, K.D., Brereton, R.G., Dunkerley, S. and Escott, R.E., Twoway, unfolded three-way and three-mode partial least squares calibration of diode array HPLC chromatograms for the quantitation of low-level pharmaceutical impurities, 384 (1999) 71

Zivanovic, L., see Agatonovic-Kustrin, S., 364 (1998) 265

Zocher, F., Enzelberger, M.M., Bornscheuer, U.T., Hauer, B. and D. Schmid, R., A colorimetric assay suitable for screening epoxide hydrolase activity, 391 (1999) 345

Zolotov, Y., see Dmitrienko, S.G., 373 (1998) 131

Zolotov, Y.A., Maksimova, I.M., Morosanova, E.I. and Velikorodny, A.A., On-line coated columns for the spectrophotometric determination of metals by continuous flow analysis, 308 (1995) 378 Zolotov, Y.A., Morosanova, E.I., Zhalovannaya, S.V. and Dyukarev, S.S., Continuous flow analysis: simultaneous spectrophotometric determinations of metals, 308 (1995) 386

Zolotov, Y.A., see Kubrakova, I.V., 334 (1996) 167

Zomer, M., see Nuijens, M.J., 311 (1995) 47

Zook, L.A., see Amarasinghe, S., 307 (1995) 227

Zorec, R., see Zhang, X., 378 (1999) 135

Zou, H., see Liu, Z., 378 (1999) 73

Zou, S., see Xiong, G., 371 (1998) 97

Zou, Y. and Mo, J., Ensembles of carbon paste microelectrodes, 382 (1999) 145

Zoulis, N.E. and Efstathiou, C.E., Preconcentration at a carbonpaste electrode and determination by adsorptive-stripping voltammetry of rutin and other flavonoids, 320 (1996) 255

Zuberbühler, A.D., see Dyson, R.M., 353 (1997) 381

Zucheng, J., see Fuyi, W., 391 (1999) 89

Zuliang, C. and Alexander, P.W., Potentiometric detection of carboxylic acids by flow injection analysis using a tungsten oxide electrode, 332 (1996) 187

Zuo, H., see Zhou, J., 379 (1999) 307

Zupan, J. and Novič, M., General type of a uniform and reversible representation of chemical structures, 348 (1997) 409

Zupan, J. and Novič, M., Optimisation of structure representation for QSAR studies, 388 (1999) 243

Zupan, J., see Divjak, B., 358 (1998) 305

Zupan, J., see Klemenc, S., 389 (1999) 141

Zupan, J., see Majcen, N., 348 (1997) 87

Zupan, J., see Novič, M., 348 (1997) 101

Zupan, J., see Ruisánchez, I., 348 (1997) 113

Zupan, J., see Vračko, M., 384 (1999) 319

Zurek, G. and Karst, U., Microplate photometric determination of aldehydes in disinfectant solutions, 351 (1997) 247

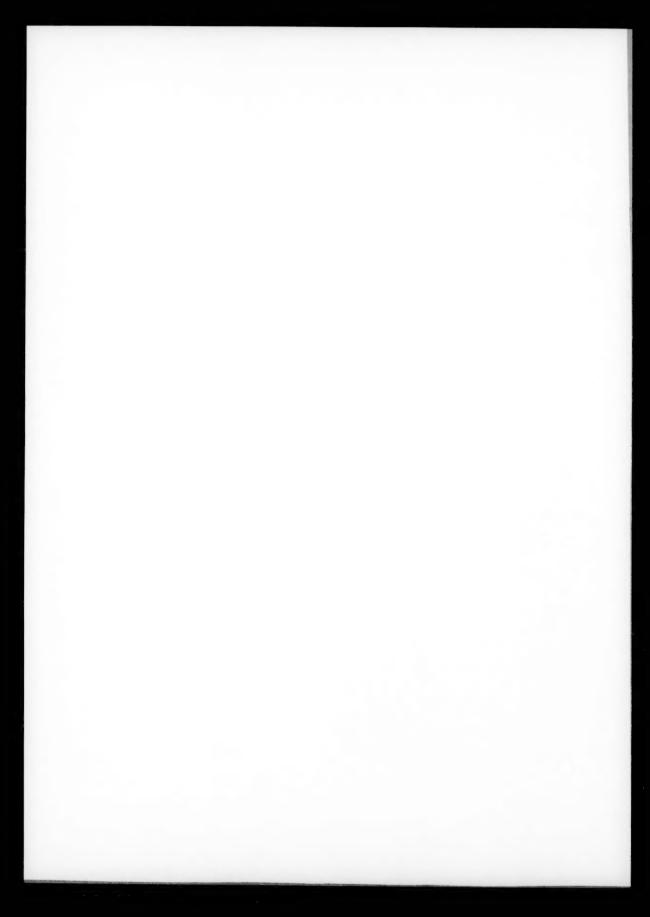
Zuther, F., Ross, B. and Cammann, K., Differential flow-injection potentiometry with double sensitivity using one ion-selective membrane, 313 (1995) 83

Zuur, P., see van de Merbel, N.C., 303 (1995) 175

Zuyun, H., Houping, H., Ruxiu, C. and Yun'e, Z., Organic solvent enhanced spectrofluorimetric method for determination of laccase activity, 374 (1998) 99

Zwanenburg, B., see Wehrens, R., 400 (1999) 413

Zwinkels, J.C. and Gauthier, F., Instrumentation, standards, and procedures used at the National Research Council of Canada for high-accuracy fluorescence measurements, 380 (1999) 193



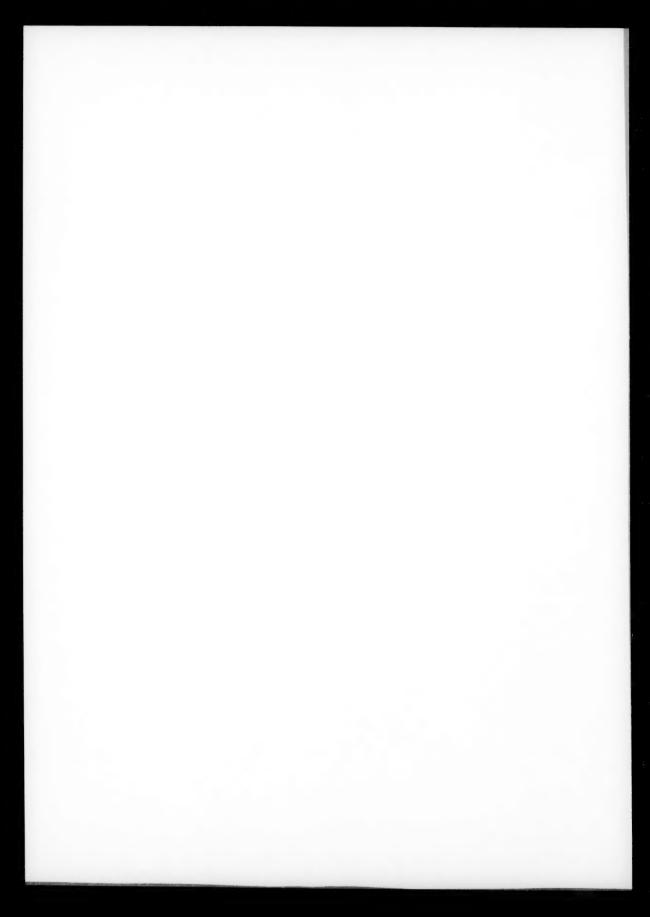


Analytica Chimica Acta 425 (2000) 183-640

ANALYTICA CHIMICA ACTA

www.elsevier.com/locate/aca

Cumulative Subject Index Analytica Chimica Acta Volumes 302-400, 1997-2000





#### A.c. polarography

Study of the reduction mechanism and the adsorption properties of uranium(VI)-cupferron complexes using various electrochemical techniques, 304 (1995) 177

#### AAQ

Sensitive absorption detection for micro-column liquid chromatography by ultraviolet forward-scattering degenerate four-wave mixing, 390 (1999) 55

### Abasic sites

Highly sensitive assay of DNA abasic sites in mammalian cellsoptimization of the aldehyde reactive probe method, 365 (1998)

# Abraham's solvation model

Temperature effect on the characteristic solute-solvent retention interactions, calculated with Abraham's solvation model, for 16 GLC stationary phases, 377 (1998) 71

### Absolute intensity

IR quantitative analysis of organic mixtures without any calibration, 353 (1997) 105

#### Absolute purity determination

Effective purification of ellagic acid by successive automatic recrystallization and absolute determination of purity by absorptivity ratio, 338 (1997) 247

#### Absolute recovery

The SFSTP guide on the validation of chromatographic methods for drug bioanalysis: from the Washington Conference to the laboratory, 391 (1999) 135

#### Absorbance

Optosensing of cationic surfactants based on host-guest chemistry, 370 (1998) 259

Challenges in providing standard reference materials for chemical and pharmaceutical process analysis, 380 (1999) 115

Hydrogen sulfite optical sensor based on a lipophilic guanidinium ionophore, 388 (1999) 63

Simultaneous absorbance, fluorescence and refractive index (SAFRIN) detection for Micro LC, 397 (1999) 191

## Absorbance measurements

Concentration non-uniformities and averages in flow-through spectrophotometric measurements, 363 (1998) 171

### Absorbance spectroscopy

Long pathlength absorbance spectroscopy: trace analysis of Fe(II) using a 4.5 m liquid core waveguide, 357 (1997) 99

## Absorptiometry

A convenient calibrant for silicon determination, 339 (1997) 297

## Absorption

A simple, highly stable scintillator light source for ultraviolet absorption-based sensors, 367 (1998) 153

# **Absorption detection**

The analytical potential of diode laser-based intracavity absorption detection in column liquid chromatography, 323 (1996) 1

Sensitive absorption detection for micro-column liquid chromatography by ultraviolet forward-scattering degenerate four-wave mixing, 390 (1999) 55

## Absorption spectroscopy

Voltammetric and spectroscopic studies of the oxidation of the antioxidant drug dipyridamole in acetonitrile and ethanol, 375 (1998) 223

Fundamental baseline variations in aqueous near-infrared analysis, 394 (1999) 135

# Absorption spectrum

Molecular spectroscopic study of DNA binding with neutral red and application to assay of nucleic acids, 396 (1999) 75

### Abstract factor analysis

Critical evaluation of two F-tests for selecting the number of factors in abstract factor analysis, 337 (1997) 57

### AC impedance

DNA-modified electrodes Part 3.: spectroscopic characterization of DNA-modified gold electrodes, 388 (1999) 93

#### Acaricide

Preconcentration and separation of acaricides by polyether based polyurethane foam, 320 (1996) 277

# Accelerated solvent extraction

Accelerated solvent extraction of lipids for determining the fatty acid composition of biological material, 358 (1998) 69

# Accuracy

Choosing reference samples for EPR concentration measurements.

Part 1. General introduction and systems of S=12, 339 (1997) 1

Choosing reference samples for EPR concentration measurements. Part 2. Systems of S=1, 339 (1997) 13

Choosing reference samples for EPR concentration measurements. Part 3. Systems of S=32, 339 (1997) 31

Choosing reference samples for EPR concentration measurements. Part 4. Systems of S=52, 339 (1997) 53

Flow analysis with accuracy assessment, 350 (1997) 31

The SFSTP guide on the validation of chromatographic methods for drug bioanalysis: from the Washington Conference to the laboratory, 391 (1999) 135

# Acemethacin

Genetic-algorithm-based wavelength selection in multicomponent spectrometric determinations by PLS: application on indomethacin and acemethacin mixture, 339 (1997) 63

# Acenaphthene

Close overlapping discrimination of polycyclic aromatic hydrocarbons by synchronous scanning at variable-angle solid-phase spectrofluorimetry, 302 (1995) 193

- Experimental design applied to a room-temperature phosphorimetric method for the determination of acenaphthene in a microemulsion, 318 (1996) 357
- Room-temperature phosphorescence of acenaphthene in aerated solutions in the presence of bromoalcohols and γ-cyclodextrin, 370 (1998) 199

# Acetaldehyde

Pervaporation: An interface between fermentors and monitoring, 330 (1996) 265

#### Acetaminophen

- Study of acetaminophen by parallel incident spectroelectrochemistry, 342 (1997) 13
- Simultaneous determination of caffeine and acetaminophen in drug formulations by square-wave voltammetry using a chemically modified electrode, 342 (1997) 175
- Determination of acetaminophen by thermometric titrimetry, 343 (1997) 125
- Determination of acetaminophen by flow injection with on-line chemical derivatization: Investigations using visible and FTIR spectrophotometry, 364 (1998) 107

#### Acetate

- An on-line flow-injection analysis system for the determination of acetate, 316 (1995) 117
- Effect of organic acids on the determination of carbonate species in solutions, 318 (1996) 239

## Acetate complex

Homogeneous liquid-liquid extraction of uranium(VI) from acetate aqueous solution, 387 (1999) 71

# Acetate kinase

- Bioluminescent enzyme immunoassay using thermostable mutant luciferase and acetate kinase as a labelled enzyme, 361 (1998) 19
- Bioluminescent enzyme immunoassay for pituitary adenylate cyclase activating polypeptide 38 (PACAP38), 382 (1999) 245

#### Acetic acid

- Determination of experimental diffusion coefficients of acetic acid and formic acid vapours in air using a passive sampler, 341 (1997) 1
- Automated analysis of low-molecular weight organic acids in ambient air by a microporous tube diffusion scrubber system coupled to ion chromatography, 353 (1997) 227

# Acetic acid vapours

A diffusion tube sampler for the determination of acetic acid and formic acid vapours in museum cabinets, 341 (1997) 11

#### Acetone

- Autoprotolysis in aqueous organic solvent mixtures. Water/dipolar protophilic solvent binary systems, 349 (1997) 367
- Solvatochromogenic flavone dyes for the detection of water in acetone, 383 (1999) 299

### Acetonitrile

- Modelling and optimization of the separation of steroids eluted with a micellar mobile phase of sodium dodecyl sulphate containing acetonitrile, 333 (1996) 31
- Chemiluminescence of β-lactam antibiotics following oxidation by potassium superoxide, 338 (1997) 1
- Autoprotolysis in aqueous organic solvent mixtures. Water/dipolar protophilic solvent binary systems, 349 (1997) 367
- Hydrophobic salt-induced phase-separation and extraction for sample preparation in chromatographic determination of heavy metal ions as dibenzyldithiocarbamates, 356 (1997) 135
- Conjugation and proton exchange equilibria: an electrometric method for determination of heteroconjugation constants in solvents of weak proton donating and weak proton accepting properties, 384 (1999) 27

#### Acetonitrile-water

Factor analysis applied to correlation between acidity constants of series of diuretics, quinolones and buffers, with solvatochromic parameters in water-acetonitrile mixtures, 347 (1997) 385

#### Acetonitrile-water mixtures

- Acid-base behaviour of tripeptides in solvents used in liquid chromatography. Correlation between pK values and solvatochromic parameters of acetonitrile-water mixtures, 347 (1997) 295
- Solvent effects on protonation equilibria of peptides and quinolones by factor analysis applied to the correlation between dissociation constants and solvatochromic parameters in acetonitrile-water mixtures, 351 (1997) 397

#### Acetylacetonates

Characterization of supported and unsupported transition metal compounds by liquid secondary ion mass spectrometry, 346 (1997) 223

#### Acetylaminoglutethimide

Enantiomeric separation of some piperidine-2,6-dione drugs on tolylcellulose by liquid chromatography, 346 (1997) 183

# Acetylated β-cyclodextrin derivatives

Chiral separation of several amino acid derivatives by capillary zone electrophoresis with selectively acetylated  $\beta$ -cyclodextrin derivatives, 373 (1998) 47

#### Acetylcholine

- Determination of acetylcholine and choline with platinum-black ultramicroarray electrodes using liquid chromatography with a post-column enzyme reactor, 318 (1996) 167
- Enzyme modified amperometric sensors for choline and acetylcholine with tetrathiafulvalene tetracyanoquinodimethane as the electron-transfer mediator, 341 (1997) 43
- Peroxyoxalate chemiluminescence in aqueous solutions: Coupling of immobilized enzyme reactors and 1,1'-oxalyldiimidazole chemiluminescence reaction to flow-injection analysis and liquid chromatographic systems, 357 (1997) 111

### Acetylcholinesterase

Chemiluminescence assays of organophosphorus and carbamate pesticides, 302 (1995) 53

- Evaluation of the use of free and immobilised acetylcholinesterase for paraoxon detection with an amperometric choline oxidase based biosensor, 311 (1995) 273
- Chemometric methods for the development of a biosensor system and the evaluation of inhibition studies with solutions and mixtures of pesticides and heavy metals Part 1. Development of an enzyme electrodes system for pesticide and heavy metal screening using selected chemometric methods, 318 (1996) 275
- Flow injection analysis of paraoxon with the use of an immobilized acetylcholinesterase reactor, 324 (1996) 21
- Potentiometric detection of pesticides in water samples, 325 (1996)
- Determination of carbamate residues in crop samples by cholinesterase-based biosensors and chromatographic techniques, 362 (1998) 59
- Electrochemical approach in studying the inhibition of acetylcholinesterase by arsenate(III): analytical characterisation and application for arsenic determination, 364 (1998) 195
- Immobilization of enzyme on screen-printed electrode by exposure to glutaraldehyde vapour for the construction of amperometric acetylcholinesterase electrodes, 382 (1999) 277

# Acetylsalicylate

A coupled enzymatic assay for salicylate and acetylsalicylate using salicylate hydroxylase and tyrosinase, 335 (1996) 169

## Acetylsalicylic acid determination

Acetylsalicylic acid determination in pharmaceutical samples by FIA-potentiometry using a salicylate-sensitive tubular electrode with an ethylene-vinyl acetate membrane, 366 (1998) 103

# Acetylthiocholine

Automatic testing of enzyme modifiers by the flow-gradient technique, 308 (1995) 152

## Acid digestion

Determination of trace elements in sea weed samples by inductively coupled plasma mass spectrometry, 355 (1997) 121

Determination of trace elements in shellfish tissue samples by inductively coupled plasma mass spectrometry, 382 (1999) 215

### **Acid dissociation**

Selectivity optimization after prediction of the migration behaviour of anions in capillary ion analysis in the presence of micelles, 310 (1995) 27

# a1-Acid glycoprotein

Synthesis of enantiomeric selective  $\alpha_1$ -acid glycoprotein (AGP)bonded capillary and its application in capillary electrophoresis, 373 (1998) 207

# Acid green 25

Microdetermination of proteins by Rayleigh light scattering technique with acid green 25, 338 (1997) 255

# Acid hydrolysis

Determination of scandium in geological materials, rare earth minerals and niobate/tantalate-type of samples by inductively coupled plasma atomic emission spectrometry after solvent extraction/acid hydrolysis separation, 376 (1998) 273

### Acid leaching

Rapid acid leaching and slurry sampling procedures for the determination of methyl-mercury and total mercury in human hair by electrothermal atomic absorption spectrometry, 398 (1999) 263

#### Acid phosphatase

- Highly sensitive immunological assays for human chorionic gonadotrophin and prostatic acid phosphatase using phenacyl phosphate as a chemiluminescent label, 309 (1995) 221
- Chemometric methods for the development of a biosensor system and the evaluation of inhibition studies with solutions and mixtures of pesticides and heavy metals Part 1. Development of an enzyme electrodes system for pesticide and heavy metal screening using selected chemometric methods, 318 (1996) 275
- Acid phosphatase/glucose oxidase-based biosensors for the determination of pesticides, 336 (1996) 67
- Inhibition behavior of acid phosphatase, phosphodiesterase I and adenosine deaminase as tools for trace metal analysis and speciation, 360 (1998) 101

## Acid precipitable polymeric lignin (APPL)

Chemical characterization by pyrolysis/gas chromatography/mass spectrometry of acid-precipitable polymeric lignin (APPL) from wheat straw transformed by selected streptomyces strains, 345 (1997) 121

#### Acid rain

Sulfate sensor using Thiobacillus ferrooxidans, 347 (1997) 275

# Acid strength resolution

Dissociation constants of neutral and charged acids in methyl alcohol. The acid strength resolution, 374 (1998) 309

#### Acid/base titrations

A knowledge based advisory system for acid/base titrations in nonaqueous solvents, 332 (1996) 201

#### Acid-base

- Study of acid-base properties of fulvic acids using fluorescence spectrometry and multivariate curve resolution methods, 310 (1995) 473
- Acid-base properties of a river sediment: applicability of potentiometric titrations, 329 (1996) 33

# Acid-base equilibria

- Interpretation of the acid-base equilibrium of humic acid by a continuous pK distribution and electrostatic model, 302 (1995) 365
- Acid-base equilibria of 2-furoic acid hydrazide and adipic acid dihydrazide in aqueous-organic media, 306 (1995) 297
- A potentiometric study of acid-base equilibria of substituted pyridine N-oxides in nitrobenzene, 335 (1996) 147

Study of the acid-base equilibria and conformational changes of double stranded polyadenylic-polyuridylic acid in aqueous solution, 363 (1998) 119

A potentiometric study of acid-base equilibria of substituted pyridines in acetonitrile, 381 (1999) 215

### Acid-base equilibrium

Measurement of electrokinetic and size characteristics of estuarine colloids by dynamic light scattering spectroscopy, 331 (1996) 1

#### Acid-base properties

Simultaneous use of evolving factor analysis of fluorescence spectral data and analysis of pH titration data for comparison of the acid-base properties of fulvic acids, 318 (1996) 365

Studies on correlations of acid-base properties of substituted pyridine N-oxides in solutions. Part 1. Correlations of the pK<sub>a</sub> values in non-aqueous solvents and water, 321 (1996) 237

Studies on correlations of acid-base properties of substituted pyridine N-oxides in solutions. Part 2: Correlations of the pK<sub>a</sub> values in non-aqueous media, 329 (1996) 267

Electroanalytical and acid-base properties of imidazoacridinone, an antitumor drug (C-1311), 379 (1999) 209

# Acid-base titrimetry

Comparison of methodologies for determination of carboxylic and phenolic groups in humic acids, 364 (1998) 223

# Acid-catalyzed reaction

Successfully controlled isomerization and pheophytinization of bacteriochlorophyll b by weak acid in the dark in vitro, 361 (1998) 285

Light-independent isomerization of bacteriochlorophyll g to chlorophyll a catalyzed by weak acid in vitro, 365 (1998) 199

## Acidic buffer

Buffer composition suitable for determining very low fluoride concentrations using a fluoride ion-selective electrode and its application to the continuous analysis of rain water, 338 (1997) 141

#### Acidic drugs

Quantitative analysis of human serum albumin-drug interactions using reversed-phase and ion-exchange liquid chromatography, 378 (1999) 77

## Acidic pH

Oligonucleotide analysis by capillary zone electrophoresis at low pH, 345 (1997) 1

### Acidified subcritical water extraction

Acidified subcritical water extraction of major ash-forming elements from coal, 395 (1999) 113

## Acidity

Automated flow injection spectrophotometric non-aqueous titrimetric determination of the free fatty acid content of olive oil, 351 (1997) 291

Spectrophotometric study of the solubility and the protolytic properties of 1-(2-pyridylazo)-2-naphthol in different ethanol-water solutions, 360 (1998) 153

Flow injection conductimetric or spectrophotometric analysis for acidity in fruit juice, 363 (1998) 199 Flow-injection conductometric determination of acidity in industrial hydrated ethyl alcohol, 366 (1998) 81

#### **Acidity constants**

Acid-base behaviour of tripeptides in solvents used in liquid chromatography. Correlation between pK values and solvatochromic parameters of acetonitrile-water mixtures, 347 (1997) 295

#### Acidochromic dye

Ion-selective optode membranes using 9-(4-diethylamino-2-octadecanoatestyryl)-acridine acidochromic dye, 398 (1999) 1

#### Acid

Ionic equilibria in aqueous organic solvent mixtures The dissociation constants of acids and salts in tetrahydrofuran/water mixtures, 340 (1997) 133

Selective determination of protolytes by flow injection analysis. A guide for the rational selection of reagent composition, 344 (1997) 271

Steady state voltammetry in the process of hydrogen evolution in buffer solutions, 361 (1998) 141

#### (ACN)-water mixtures

Chromatographic behavior of ionizable compounds in liquid chromatography. Part 2. Standardization of potentiometric sensors and effect of pH and ionic strength on the retention of analytes using acetonitrile-water mobile phases, 389 (1999) 43

#### Acoustic methods

Clinical analysis of urea in human blood by coupling a surface acoustic wave sensor with urease extracted from pumpkin seeds, 307 (1995) 61

Evaluation of acoustic emission as a means for carbonate determination, 309 (1995) 283

Characterization of the acousto-optic tunable filter for the ultraviolet and visible regions and development of an acousto-optic tunable filter based rapid scanning detector for high-performance liquid chromatography, 314 (1995) 57

Toward development of a humidity correction algorithm for surface acoustic wave sensors Part 3. Water, nitrobenzene and 2-nitrotoluene adsorption on platinum/lead coated piezoelectric sensors, 317 (1995) 281

Sensitivity of modified bulk acoustic waves for the detection of phenols in the vapour phase, 318 (1995) 77

Theory of the surface acoustic wave/impedance sensor system and its application to the end-point determination in titrimetry, 320 (1996) 245

A novel bulk acoustic wave sensor for dissolved ammonia, 325 (1996) 65

Mimicking the olfactory system by a thickness-shear-mode acoustic sensor array, 335 (1996) 117

#### Acoustic wave sensors

Mass sensitivity of the tube acoustic wave sensor in the extensional mode, 336 (1996) 13

# Acousto-optic tunable filter

Characterization of the acousto-optic tunable filter for the ultraviolet and visible regions and development of an acousto-optic tunable filter based rapid scanning detector for high-performance liquid chromatography, 314 (1995) 57

Detection of flow injection analysis with pH gradient by acoustooptic tunable filter based spectrophotometry, 319 (1996) 315

Phosphorescence imaging system using an acousto-optic tunable filter and a charge-coupled device, 346 (1997) 361

Phosphorescence imaging system using an acousto-optic filterbased charge coupled device, 351 (1997) 229

#### **Acridine** derivatives

Isomer-specific detection of azaarenes in environmental samples by Shpol'skii luminescence spectroscopy, 354 (1997) 181

#### Acridine yellow

Study on the dimer-monomer equilibrium of a fluorescent dye and its application in nucleic acids determination, 361 (1998) 9

#### Acridone-N-acetyl chloride

New reagents for determination of amino acids by liquid chromatography with pre-column fluorescence derivatization, 367 (1998) 81

# Acridone-9-N-acetyl-benzene-disulfonate

Derivatization of alcohols using acridone-9-N-acetyl-benzene-disulfonate as a condensation agent and its application for the determination of volatile alcohols in human plasma by liquid chromatography with fluorescence detection, 391 (1999) 43

#### Acrylamide

Electro-optical properties of microbial cells as affected by acrylamide metabolism, 347 (1997) 241

# **Acrylic fibres**

Use of near-infrared spectrometry in control analyses of acrylic fibre manufacturing processes, 383 (1999) 291

#### Actin

HPLC and post-column derivatization with fluorescamine: isolation of actin-sequestering β-thymosins by reversed-phase HPLC, 352 (1997) 239

Oxidation and reduction of thymosin β<sub>4</sub> and its influence on the interaction with G-actin studied by reverse-phase HPLC and post-column derivatization with fluorescamine, 352 (1997) 249

#### Actinides

Separation and preconcentration of actinides by extraction chromatography using a supported liquid anion exchanger: application to the characterization of high-level nuclear waste solutions, 310 (1995) 63

Determination of fission products and actinides by inductively coupled plasma-mass spectrometry using isotope dilution analysis: a study of random and systematic errors, 312 (1995) 57

3-Phenyl-4-benzoyl-5-isoxazolone: A promising chelate extractant for actinide separation from acidic nuclear waste solutions, 320 (1996) 151

#### Actinometer

Application of TiO<sub>2</sub> sol for UV radiation measurements, 311 (1995)

#### **Activated carbon**

Determination of ammonia in wastewaters containing high concentrations of surfactants by flow injection potentiometry with online sample clean-up, 367 (1998) 193

## Activation energies of decomposition

Characterisation of the ion mobility spectrometric behaviour of a dinitrobutane under varying conditions of temperature and concentration, 375 (1998) 49

### Activation energy

Confidence intervals for the activation energy estimated by few experiments, 355 (1997) 175

#### Activation parameters

Analysis of non-isothermal kinetic measurements, 337 (1997)

### Activator

Photo-induced reduction of nitrate to nitrite and its application to the sensitive determination of nitrate in natural waters, 308 (1995) 406

#### Active ester

Sulfosuccinimidyl 4-(N-maleimidomethyl)-1-cyclohexane carboxylate as a bifunctional immobilization agent. Optimization of the coupling conditions, 361 (1998) 33

#### Active ingredient

Impurity analysis of methamidophos with chromatographic methods, 395 (1999) 257

# Active methylene compound

Detection of active methylene compounds having cyano and carbonyl groups with chemiluminescent reaction using tris(2,2'bipyridine)ruthenium(III) prepared by on-line electrochemical oxidation, 378 (1999) 43

### Activity coefficients

General equation for determining the dissociation constants of polyprotic acids and bases from additive properties. Part II. Applications, 390 (1999) 267

# Acyclic dithia benzene derivatives

Thermodynamic characterization of the liquid-liquid extraction of silver by acyclic dithia benzene derivatives, 375 (1998) 127

# Acyclic Schiff base

Liquid-liquid extraction of iron(III) and gallium(III) with macrocyclic Schiff bases containing bisphenol A subunits, 319 (1996) 387

# Acylglucuronide

Direct determination of diastereomeric <sup>13</sup>C-labeled ketoprofen glucuronides in human urine by nuclear magnetic resonance spectroscopy, 334 (1996) 67

### Adaptive Kalman filter

Identification and quantification of overlapped peaks in liquid chromatography with UV diode array detection using an adaptive Kalman filter, 335 (1996) 1

### Adaptive resonance theory (ART)

Comparison of an adaptive resonance theory based neural network (ART-2a) against other classifiers for rapid sorting of post consumer plastics by remote near-infrared spectroscopic sensing using an InGaAs diode array, 317 (1995) 1

### Adaptive resonance theory based neural network

Classification of single particles by neural networks based on the computer-controlled scanning electron microscopy data, 348 (1997) 375

#### Adaptive wavelet filter

Wavelet analyses of electroanalytical chemistry responses and an adaptive wavelet filter, 346 (1997) 319

#### Additional membranes

Conductometric urea sensor. Use of additional membranes for the improvement of its analytical characteristics, 321 (1996) 35

#### Additive properties

General equation for determining the dissociation constants of polyprotic acids and bases from additive properties. Part I. Theory, 390 (1999) 261

#### Additivity rules

New parameters for predicting <sup>1</sup>H NMR chemical shifts of protons attached to carbon atoms, 312 (1995) 95

#### Adenine

Determination of trace adenine, adenosine and adenosine monophosphate by 2nd-order derivative adsorption chronopotentiometry, 347 (1997) 263

Adsorption-voltammetric determination of guanine, guanosine, adenine and adenosine with capillary zone electrophoresis separation, 347 (1997) 269

#### Adenosine

Selectivity and sensitivity of ultrathin purine-templated overoxidized polypyrrole film electrodes, 336 (1996) 37

Determination of trace adenine, adenosine and adenosine monophosphate by 2nd-order derivative adsorption chronopotentiometry, 347 (1997) 263

Adsorption-voltammetric determination of guanine, guanosine, adenine and adenosine with capillary zone electrophoresis separation, 347 (1997) 269

#### Adenosine deaminase

An amperometric-enzymatic method for assays of inorganic phosphate and adenosine deaminase in serum based on the measurement of uric acid with a dialysis membrane-covered carbon electrode, 303 (1995) 301

Inhibition behavior of acid phosphatase, phosphodiesterase I and adenosine deaminase as tools for trace metal analysis and speciation, 360 (1998) 101

#### Adenosine monophosphate

Determination of trace adenine, adenosine and adenosine monophosphate by 2nd-order derivative adsorption chronopotentiometry, 347 (1997) 263

### Adenosine 5'-monosulphate

A transient enzymatic inhibition as an efficient tool for the discriminating bioluminescent analysis of three adenylic nucleotides with a fiberoptic sensor based on a compartmentalized tri-enzymatic sensing layer, 360 (1998) 89

### Adenosine phosphate

Ion chromatograph with immobilized alkaline phosphatase reactor for the determination of adenosine phosphates, 384 (1999) 45

Determination of adenosine phosphate by co-electroosmotic capillary electrophoresis with amperometric detection, 399 (1999) 259

### Adenylate kinase

A transient enzymatic inhibition as an efficient tool for the discriminating bioluminescent analysis of three adenylic nucleotides with a fiberoptic sensor based on a compartmentalized tri-enzymatic sensing layer, 360 (1998) 89

## Adipic acid dihydrazide

Acid-base equilibria of 2-furoic acid hydrazide and adipic acid dihydrazide in aqueous-organic media, 306 (1995) 297

#### Adipose

Determination of iron and zinc in adipose tissue by on-line microwave-assisted mineralization and flow-injection graphite furnace atomic absorption spectrometry, 308 (1995) 349

#### Adipose tissue

Slow ultrafiltration for continuous in vivo sampling: application for glucose and lactate in man, 379 (1999) 327

# Adlayer polarization

Screening effects in surface infrared spectra of CO adsorbed on electrodes: application to isothermal desorption measurements, 397 (1999) 53

#### Admittance

Glucose conductometric biosensor with potassium hexacyanoferrate(III) as an oxidizing agent, 374 (1998) 11

#### Admittance analysis

Fast Fourier transform admittance analysis method applied to thickness-shear-mode acoustic wave sensors, 353 (1997) 29

# Adrenaline hydrochloride

Spectrofluorimetric flow injection determination of adrenaline with an iodine solid-phase reactor, 308 (1995) 334

# Adsorbable organic halogens

Detection and elimination of the constant error component and the interactive matrix interference in the determination of adsorbable organic halogen (AOX) in bleached kraft paper pulp mill effluents, 333 (1996) 139

#### Adsorbates

Atomic-scale view of motion on surfaces, 307 (1995) 355

## Adsorbed resin phase spectrophotometry

Adsorbed resin phase spectrophotometric determination of nickel, 363 (1998) 295

## Adsorbed resin solid phase spectrophotometry

Determination of trace amounts of manganese by β-cyclodextrin polymer solid phase spectrophotometry using 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol, 392 (1999) 247

#### Adsorbed species

Voltammetry of compounds confined at the hanging mercury drop electrode surface, 385 (1999) 315

## Adsorbed stationary phase

Open tubular capillary electrochromatography with adsorbed stationary phase, 378 (1999) 73

### Adsorption

Impedance studies of the adsorption of hydrophobic and hydrophylic species on mineral pulps, 305 (1995) 265

Influence of adsorption on calibration curves in normal pulse polarography, 305 (1995) 273

Influence of Triton X-100 in stripping potentiometry, 333 (1996)

Column solid-phase extraction of heavy metal ions on a high surface area CeO<sub>2</sub> as a preconcentration method for trace determination, 336 (1996) 141

Electrochemical behavior of FAD at a gold electrode studied by electrochemical quartz crystal microbalance, 338 (1997) 97

Characterization of organic matter in fractionated seawater samples using o-nitrophenol as an electrochemical probe, 338 (1997) 179

Adsorption determination of ionic surfactants using an electrodeseparated piezoelectric quartz crystal, 339 (1997) 187

Determination of trace adenine, adenosine and adenosine monophosphate by 2nd-order derivative adsorption chronopotentiometry, 347 (1997) 263

Adsorption-voltammetric determination of guanine, guanosine, adenine and adenosine with capillary zone electrophoresis separation, 347 (1997) 269

Determination of salmon calcitonin by square wave adsorptive stripping voltammetry, 351 (1997) 65

Adsorption study of organic molecules on fullerene with piezoelectric crystal detection system, 374 (1998) 39

Recovery of palladium(II) and gold(III) from diluted liquors using the resin duolite GT-73, 381 (1999) 61

Surface deactivation in protein and peptide analysis by capillary electrophoresis, 383 (1999) 1

Separation and preconcentration of fluoride at the ng ml<sup>-1</sup> level with a polymer complex of zirconium(IV) followed by potentiometric determination in a flow system, 388 (1999) 201

The use of voltammetry for sorption studies of heavy metals on mineral surfaces in presence of the siderophore desferrioxamine B, 392 (1999) 159

# Adsorption of copper(I)-cysteine complex

Potentiometric stripping analysis of copper using cysteine modified mercury film electrode, 373 (1998) 39

## adsorption of Cr(VI)-PDC complex

Selective flow-injection quantification of ultra-trace amounts of Cr(VI) via on-line complexation and preconcentration with APDC followed by determination by electrothermal atomic absorption spectrometry, 366 (1998) 163

## Adsorption phenomena

Potentiometric stripping analysis vs. differential pulse anodic stripping voltammetry for copper(II) analysis at relatively positive deposition potential, 303 (1995) 255

## Adsorption voltammetry

Determination of sub-ppbv levels of formaldehyde in ambient air using Girard's reagent T-coated glass fiber filters and adsorption voltammetry, 349 (1997) 349

#### Adsorption-dissociation

Investigation of adsorption-dissociation mechanism of organic molecules at solid-liquid interface using nonlinear optical molecular probing method, 397 (1999) 73

### Adsorptive behaviour

Studies on the adsorptive behaviour of mazindol and its adsorptive stripping voltammetry, 358 (1998) 297

## Adsorptive cathodic stripping voltammetry

Validation and in situ application of an automated dissolved nickel monitor for estuarine studies, 371 (1998) 235

Validation and in situ application of an automated dissolved nickel monitor for estuarine studies, 377 (1998) 217

Stripping voltammetry for the determination of trace metal speciation and in-situ measurements of trace metal distributions in marine waters, 400 (1999) 381

# Adsorptive determination

Adsorptive determination of copper(II) in solution as an ion-pair of bisneocuproinecopper(I) and dodecylsulfate ions on an electrode-separated piezoelectric quartz crystal, 374 (1998) 291

# Adsorptive stripping voltammetry

Adsorptive stripping determination of indole-3-acetic acid at a carbon fiber ultramicroelectrode, 327 (1996) 117

Potentiometric stripping analysis of bioactive peptides at carbon electrodes down to subnanomolar concentrations, 332 (1996) 49

Determination of poly(vinyl alcohol) by adsorptive stripping voltammetry based on its copper(II) complex, 338 (1997) 103

Adsorptive potentiometric stripping analysis of nucleic acids at mercury electrodes, 349 (1997) 77

Simultaneous measurements of trace chromium and uranium using mixed ligand adsorptive stripping analysis, 354 (1997) 275

Studies on the adsorptive behaviour of mazindol and its adsorptive stripping voltammetry, 358 (1998) 297

Determination of trace amounts of copper(II) by adsorptive stripping voltammetry of its complex with pyrogallol red, 385 (1999) 265

Voltammetric studies of anthraquinone dyes adsorbed at a hanging mercury drop electrode using fast pulse techniques, 385 (1999) 287

Voltammetric study of khellin at a DNA-coated carbon paste electrode, 386 (1999) 63

Trace measurement of dithiocarbamate based pesticide by adsorptive stripping voltammetry, 388 (1999) 111

Electroanalytical study and square wave voltammetric techniques for the determination of  $\beta$ -blocker timolol at the mercury electrode, 389 (1999) 225

Polarographic and voltammetric determination of selected nitrated polycyclic aromatic hydrocarbons, 393 (1999) 141

Selective determination of ultra trace concentrations of molybdenum by catalytic adsorptive stripping voltammetry, 396 (1999) 215

#### AdSV

Simultaneous adsorptive stripping voltammetric determination of molybdenum(VI), uranium(VI), vanadium(V), and antimony(III), 394 (1999) 81

# Adulteration

Simultaneous quantitation of citrate and isocitrate in citrus juice by a flow-injection method based on the use of enzyme reactors, 321 (1996) 157

Discrimination of the variety and region of origin of extra virgin olive oils using <sup>13</sup>C NMR and multivariate calibration with variable reduction, 348 (1997) 357

## Aerosol-based deposition

Aerosol-generated sol-gel-derived thin films as biosensing platforms, 332 (1996) 83

#### Aerosols

Elucidating the composition of atmospheric aerosols through the combined hierarchical, non-hierarchical and fuzzy clustering of large electron probe microanalysis data sets, 317 (1995) 33

Transport of organochlorine pesticides across the air/sea interface during the aerosol process, 317 (1995) 149

The development of the significant peak selection method using the mutual information and its completeness, 351 (1997) 387

Detection of atmospheric contaminants in aerosols by surfaceenhanced Raman spectrometry, 355 (1997) 15

Automated particle collection and analysis. Near-real time measurement of aerosol cerium (III), 361 (1998) 151

Whole-cell biosensor for determination of volatile organic compounds in the form of aerosols, 364 (1998) 153

Laser-induced plasma spectroscopy (LIPS): a versatile tool for monitoring heavy metal aerosols, 392 (1999) 47

#### Affinity

Diphenylurea hapten sensing with a monoclonal antibody and its Fab fragment: Kinetic and thermodynamic investigations, 362 (1998) 101

# Affinity capillary electrophoresis

Affinity capillary electrophoresis of proteins and peptides, 383 (1999) 61

# Affinity chromatography

Development of anti-phenylurea antibody purification techniques for improved environmental applications, 376 (1998) 41

Affinity liquid membrane introduction mass spectrometry, 395 (1999) 239

### Affinity column

Immunoaffinity column chromatography against forskolin using an anti-forskolin monoclonal antibody and its application, 335 (1996) 63

#### Affinity enzymometric assay

Affinity enzymometric assay for detection of organophosphorus compounds, 357 (1997) 13

### Affinity hollow fiber sensor

Competitive-binding assay method based on fluorescence quenching of ligands held in close proximity by a multivalent receptor, 345 (1997) 203

#### Affinity membranes

Functionalization of nitrocellulose membranes using ammonia plasma for the covalent attachment of antibodies for use in membrane-based immunoassays, 376 (1998) 133

# Affinity sensors

Whole cell- and protein-based biosensors for the detection of bioavailable heavy metals in environmental samples, 387 (1999) 235

Optimization of capacitive affinity sensors: drift suppression and signal amplification, 392 (1999) 77

Receptor binding protein amperometric affinity sensor for rapid βlactam quantification in milk, 398 (1999) 13

# **Affinity separation**

Affinity adsorption separation of mutagenic molecules by polyacrylamide hydrogels comprising double-stranded DNA, 365 (1998) 101

## Aflatoxin M<sub>1</sub>

Electrochemical investigation of transduction of interactions of aflatoxin M<sub>1</sub> with bilayer lipid membranes (BLMs), 350 (1997) 121

#### AFM

Conformational aspects of model chromatographic surfaces studied by sum-frequency generation, 397 (1999) 81

### Ag\* ions

Interaction of pyrite pulps with Ag<sup>+</sup> and Hg<sup>2+</sup> ions. Electrochemical characterization of micrometric grains, 385 (1999) 467

# Ag\* sensitive membrane

Ag\* sensitive membrane of sub-μm thickness prepared by ion implantation, 306 (1995) 1

## Ag\*/cryptand complex

Detection of olefin vapours with silver(I)/cryptand-coated piezoelectric crystal sensors, 350 (1997) 109

## Ag/AgCl

An integrated three-electrode system with a micromachined liquidjunction Ag/AgCl reference electrode, 387 (1999) 103

## Agaricus bisporus

A dual arsenic speciation system combining liquid chromatographic and purge and trap-gas chromatographic separation with atomic fluorescence spectrometric detection, 358 (1998) 51

#### Aggregates

Resonance light scattering study of aggregation of two water soluble porphyrins due to their interaction with bovine serum albumin, 343 (1997) 281

Electrophoresis of hydrophobic proteins, 383 (1999) 101

## **β-Agonists**

Investigation of the electrochemical oxidation of clenbuterol at a porous carbon electrode, and its application to the determination of this  $\beta$ -agonist in bovine hair by liquid chromatography with coulometric detection, 322 (1996) 159

#### Agrochemicals

Impurity analysis of methamidophos with chromatographic methods, 395 (1999) 257

#### Air

Applicability of a novel carbon sorbent for the preconcentration of volatile chlorinated hydrocarbons, 309 (1995) 181

Surface morphology and the response of piezoelectric gas sensors, 315 (1995) 83

#### Air analysis

Determination of sub-ppbv levels of formaldehyde in ambient air using Girard's reagent T-coated glass fiber filters and adsorption voltammetry, 349 (1997) 349

Development of a membrane inlet mass spectrometric method for analysis of air samples, 349 (1997) 359

Field air analysis with SPME device, 400 (1999) 153

## Air carbonyl compounds

An artifact in air carbonyls sampling using C<sub>18</sub> DNPH-coated cartridge, 367 (1998) 223

### Air particles

Determination of arsenic and vanadium in airborne related reference materials by inductively coupled plasma-mass spectrometry, 392 (1999) 299

# Air particulates

Effect of parameters on supercritical fluid extraction of nitro-polynuclear aromatic hydrocarbons from sand, 349 (1997) 245

# Air samples

Development of a passive sampling technique for the determination of nitrogen dioxide and sulphur dioxide in ambient air, 346 (1997) 127

Workplace monitoring of oximes using 2,4-dinitrophenylhydrazinecoated silica gel cartridges and liquid chromatography, 388 (1999) 181

# Airborne particles

Classification of airborne particles by analytical scanning electron microscopy imaging and a modified Kohonen neural network (3MAP), 310 (1995) 1

Determination of silicon in airborne particulate matter by UVvisible spectrophotometry, 342 (1997) 239

Preparation of airborne particulate standards on PTFE-membrane filter for laser ablation inductively coupled plasma mass spectrometry, 368 (1998) 11

Determination of chromium in airborne particulate matter by high resolution and laser ablation inductively coupled plasma mass spectrometry, 389 (1999) 257

Spectrophotometric determination of silicate in rain and aerosols by flow analysis, 396 (1999) 285

#### Airborne particulate matter

Monitoring of the ultrasonic irradiation effect on the extraction of airborne particulate matter by ion chromatography, 317 (1995) 171

Multi-element analysis of airborne particulate matter by various spectrometric methods after microwave digestion, 320 (1996) 207

Sample collection and preparation for analysis of airborne particulate matter by total reflection X-ray fluorescence spectrometry, 346 (1997) 121

#### Airborne particulates

A sensitive method for the determination of 6-nitrochrysene, 2nitro-fluoranthene and 1-, 2- and 4-nitropyrenes in airborne particulates using high-performance liquid chromatography with chemiluminescence detection, 343 (1997) 251

#### Air-sea interface

Transport of organochlorine pesticides across the air/sea interface during the aerosol process, 317 (1995) 149

## Air-segmented flow injection

Air-segmented flow injection: a hybrid technique for automated, low dispersion determinations, 303 (1995) 231

### Al(III) complexation

Classification of binding sites for Al(III) in fulvic acids extracted from leaf litters and soils by synchronous fluorescence spectroscopy and multidimensional chemometric analysis, 333 (1996) 71

Study of the interaction of Al(III) with a soil fulvic acid in the acid pH range by self-modeling mixture analysis of synchronous fluorescence spectral data, 349 (1997) 23

#### Alachlor

Improved liposome immunomigration strip assay for alachlor determination, 311 (1995) 309

Determination of pesticides in water using ATR-FTIR spectroscopy on PVC/chloroparaffin coatings, 334 (1996) 85

An enzyme immunoassay for mutagenic metabolites of the herbicide alachlor, 376 (1998) 103

#### Albendazole metabolites

Determination of the marker residue of albendazole in milk using ion-pair liquid chromatography and fluorescence detection, 345 (1997) 111

Retention behaviour of the sulphoxide, sulphone and 2-aminosulphone metabolites of albendazole in ion-pair liquid chromatography, 354 (1997) 115

#### Albumii

Thiophilic gels: applications in flow-injection immunoassays for macromolecules and haptens, 303 (1995) 223

Study of the catalytic polarographic reduction of Ni(II) in the presence of albumin, immunoglobulins and serum proteins Determination of total proteins in serum, 317 (1995) 319

# Albumin-drug interaction

Quantitative analysis of human serum albumin-drug interactions using reversed-phase and ion-exchange liquid chromatography, 378 (1999) 77

#### Alcalase

Environmental analysis in the workplace; development of a rapid, sensitive ELISA for monitoring airborne alcalase, 316 (1995) 247

## Alcohol dehydrogenase

Enzymatic determination of ethanol based on the intrinsic fluorescence of alcohol dehydrogenase, 343 (1997) 117

Carbon felt composite electrodes and their use in electrochemical sensing: a biosensor based on alcohol dehydrogenase, 358 (1998) 15

Determination of breath alcohol using a differential-type amperometric biosensor based on alcohol dehydrogenase, 390 (1999) 83

#### Alcohol detection

Alcohol biosensors based on coupled oxidase-peroxidase systems, 327 (1996) 223

#### Alcohol determination

Fluorescent ligands for optical sensing of alcohols: synthesis and characterisation of p-N,N-dialkylamino-trifluoroacetylstilbenes, 344 (1997) 215

# Alcohol oxidase

Alcohol biosensors based on coupled oxidase-peroxidase systems, 327 (1996) 223

#### Alcohol probe

Study and application of a novel probe using twisted intramolecular charge transfer fluorescence, 349 (1997) 17

#### Alcohol sensor

Novel fluorescent sensor membranes for alcohols based on p-N,N-dioctylamino-4'-trifluoroacetylstilbene, 351 (1997) 189

Molecular design, characterization, and application of multi-information dyes for multi-dimensional optical chemical sensing. Molecular design concepts of the dyes and their fundamental spectral characteristics, 373 (1998) 271

# Alcoholic solutions

Assessment of glucose oxidase behaviour in alcoholic solutions using disposable electrodes, 368 (1998) 219

#### Alcohols

Reagentless enzyme-based sensor using a gas-permeable membrane for determination of alcohols, 306 (1995) 209

Platinum/glassy carbon electrode as detector for liquid chromatographic determination of hydroxyl-containing compounds, 311 (1995) 37

Effect of aliphatic alcohols as mobile phase modifiers on separation of phenylurea and phenoxyalkyl acid herbicides by micellar electrokinetic capillary chromatography, 317 (1995) 181

Enantiomeric separation of six 2-arylpropionic acids after precolumn derivatization with various amines and alcohols on a cellulose-based chiral stationary phase, 321 (1996) 245

Autoprotolysis in aqueous organic solvent mixtures. Water/alcohol binary systems, 335 (1996) 291

Development and characterization of anodically initiated luminescent detection for alcohols and carbohydrates, 337 (1997) 207 Application of a nickel-microelectrode-incorporated end-column detector for capillary electrophoretic determination of alditols and alcohols, 341 (1997) 83

Linear and non-linear modelling techniques for the investigation of spectrum-structure relationships, 348 (1997) 471

Determination of ultratrace amounts of boron in high purity alcohols by inductively coupled plasma-mass spectrometry with hydrofluoric acid/potassium fluoride treatment, 368 (1998) 275

Derivatization of alcohols using acridone-9-N-acetyl-benzene-disulfonate as a condensation agent and its application for the determination of volatile alcohols in human plasma by liquid chromatography with fluorescence detection, 391 (1999) 43

### Alcohol-selective sensors

Ionophores, ligands and reactands, 400 (1999) 65

## Aldehyde dehydrogenase

Continuous fluorimetric assay for human aldehyde dehydrogenase and its application to blood analysis, 319 (1996) 209

High sensitive bienzymic sensor for the detection of dithiocarbamate fungicides, 347 (1997) 63

# Aldehydes

A cyanine fluorophore with a hydrazide functionality as labelling reagent for aldehydes in liquid chromatography, 311 (1995) 47

Electrocatalysis and amperometric detection of aliphatic aldehydes at platinum-palladium alloy coated glassy carbon electrode, 330 (1996) 151

Microplate photometric determination of aldehydes in disinfectant solutions, 351 (1997) 247

Gas chromatographic determination of aldehydes in combustion smoke samples, 358 (1998) 269

Affinity liquid membrane introduction mass spectrometry, 395 (1999) 239

#### Aldito

Nickel oxide dispersed in a graphite / poly(vinyl chloride) composite matrix for an electrocatalytic amperometric sensor of alditols in flow-injection analysis, 307 (1995) 43

Application of a nickel-microelectrode-incorporated end-column detector for capillary electrophoretic determination of alditols and alcohols, 341 (1997) 83

# Aldose reductase

Clinical analysis of aldose reductase for differential diagnosis of the pathogenesis of diabetic complication, 365 (1998) 285

# Algae

Whole-cell biosensor for determination of volatile organic compounds in the form of aerosols, 364 (1998) 153

# Aliphatic amines

Potentiometric determination of relative basicities of aliphatic amines in pyridine, 324 (1996) 57

# Aliphatic and aromatic acids

Simultaneous determination of aliphatic and aromatic acids in plant tissue extracts by ion-exclusion chromatography, 386 (1999) 249

# Aliphatic hydroxy compound

Sensitized luminescence induced by nickel electrocatalysis to detect aliphatic hydroxy compounds, 362 (1998) 141

#### Aliquat 336

Chemical pumping of rhodium by a supported liquid membrane containing Aliquat 336 as carrier, 346 (1997) 199

Analysis and storage of samples for chromium determination in seawater, 356 (1997) 35

Determination of the quaternary ammonium ion components of Aliquat 336 by electrospray mass spectrometry, 360 (1998) 167

#### Alizarin

Portable fractionation device and screen-printed electrode for measurement of reactive aluminium in environmental samples, 381 (1999) 49

#### Alizarin complexone

Determination of complex formation constants for Cu(II)-Alizarin complexone with amines by capillary zone electrophoresis, 398 (1999) 75

#### Alizarin Red S

Sensitive spectrofluorimetric method for the determination of ethylenediaminetetraacetic acid and its salts in foods with zirconium ions and Alizarin Red S in a micellar medium, 329 (1996)

# Alkali and alkaline earth metals

Simultaneous determination of alkali and alkaline earth metals by ion chromatography with neutral carrier-based ion-selective electrode detector, 315 (1995) 303

Extraction of alkali metal, magnesium and calcium ions with cyclopentadienyltris(diethylphosphito-P) cobaltate(-1), 319 (1996) 271

Influence of lipophilic anionic compounds on the selectivity of ionselective electrodes based on podands with phosphoryl complexing groups, 385 (1999) 125

# Alkali fusion

Determination of trace elements in sea weed samples by inductively coupled plasma mass spectrometry, 355 (1997) 121

# Alkali halides

Ruthenium(II) tris-(2,2'-bipyridine)-specific extrinsic lyoluminescences of x-ray irradiation colored and electrolytically colored alkali halides. 309 (1995) 197

## Alkali metal ions

Quantitative extraction separation systems of alkali and alkaline earth metal ions using cryptands as ion-size selective masking reagents, 394 (1999) 317

# Alkaline and alkaline-earth

Determination of oligoelements in wheat, 343 (1997) 241

# Alkaline earth metal ions

Quantitative extraction separation systems of alkali and alkaline earth metal ions using cryptands as ion-size selective masking reagents, 394 (1999) 317

# Alkaline peroxodisulphate digestion

Determination of phosphorus in turbid waters using alkaline potassium peroxodisulphate digestion, 315 (1995) 123

#### Alkaline phosphatase

Comparison of chemiluminescent and chromogenic substrates of alkaline phosphatase in a direct immunoassay for plasma estradiol, 303 (1995) 143

Chemiluminescent assay of alkaline phosphatase using phenacyl phosphate, 306 (1995) 161

Fluorimetric-flow injection determination of theophylline based on its inhibitory effect on immobilized alkaline phosphatase, 308 (1995) 159

Highly sensitive immunological assays for human chorionic gonadotrophin and prostatic acid phosphatase using phenacyl phosphate as a chemiluminescent label, 309 (1995) 221

Evaluation of gluteraldehyde-modified chitosan as a matrix for hydrophobic interaction chromatography, 313 (1995) 253

Chemometric methods for the development of a biosensor system and the evaluation of inhibition studies with solutions and mixtures of pesticides and heavy metals Part 1. Development of an enzyme electrodes system for pesticide and heavy metal screening using selected chemometric methods, 318 (1996) 275

Chemiluminescence assay of alkaline phosphatase using cortisol-21-phosphate as substrate and its application to enzyme immunoassays, 337 (1997) 335

Chemiluminescent flow injection determination of alkaline phosphatase and its applications to enzyme immunoassays, 339 (1997) 139

Disposable screen-printed electrodes for the immunochemical detection of polychlorinated biphenyls, 342 (1997) 189

Coupling of membrane-immobilized enzyme reaction and heteropoly acid-luminol chemiluminescence reaction for the determination of adenosine-5'-triphosphate, 349 (1997) 159

Automated flow immunoassay for detection of food allergen using anion-exchange resin and alkaline phosphatase conjugated immunoglobulin G, 370 (1998) 207

Alkaline phosphatase as a label for immunoassay using amperometric detection with a variety of substrates and an optimal buffer system, 393 (1999) 95

Enzyme immunoassay by capillary electrophoresis with laser induced fluorescence detection, 399 (1999) 63

#### Alkaline phosphatase reactor

Ion chromatograph with immobilized alkaline phosphatase reactor for the determination of adenosine phosphates, 384 (1999) 45

#### Alkalinit

Effect of organic acids on the determination of carbonate species in solutions, 318 (1996) 239

pH, alkalinity and total CO<sub>2</sub> in coastal seawater by potentiometric titration with a difference derivative readout, 394 (1999) 101

#### Alkaloids

Modified β-cylclodextrins as enhancers of fluorescence emission of carbazole alkaloid derivatives, 303 (1995) 47

Determination of flavonoids and alkaloids in the scute-coptis herb couple by capillary electrophoresis, 313 (1995) 113

Evaluation of peroxyoxalate chemiluminescence for the sensitive determination of hallucinogenic alkaloids, 314 (1995) 87 Sensing neuroactive agents in Hawaiian plants, 337 (1997) 297

# Alkane enthalpy prediction

The neural network MolNet prediction of alkane enthalpies, 384 (1999) 271

#### Alkanethiols

Surface-confined monomers on electrode surfaces Part 3. Electrochemical reactions and scanning probe microscopy investigations of ω-(N-pyrrolyl) alkanethiol self-assembled monolayers on gold, 307 (1995) 269

### Alkenes

Selection of molecular descriptors used in quantitative structure—gas chromatographic retention relationships II. Isoalkanes and alkenes, 323 (1996) 15

## Alkyl sulphate surfactants

Analytical potential of mixed micelle-based methodology for the determination of ionic surfactants, 345 (1997) 75

# Alkylacrylate polymers

Tuning of glucose oxidase modified alkylacrylate polymers employed in amperometric sensor systems, 310 (1995) 199

# Alkylated polystyrene

Determination of alkylated polystyrene pour point depressant by preparative gel permeation chromatography, infrared spectrometry and nuclear magnetic resonance spectrometry, 373 (1998) 73

# Alkylbenzenes

Prediction of gas chromatographic retention indices of alkylbenzenes, 342 (1997) 113

# Alkyllead compounds

Intercomparison of alkyllead compound determination in mussels and water by two analytical techniques: gas chromatography atomic absorption spectrometry and differential pulse anodic stripping voltammetry, 326 (1996) 57

# Alkylphosphoric acids

Solvent extraction of alkylphosphoric acid derivatives between water and immiscible organic solvents, 350 (1997) 197

#### Alkylsiloxane

Conformational aspects of model chromatographic surfaces studied by sum-frequency generation, 397 (1999) 81

# All solid-state sensor

Development of a new photopolymerizable membrane for monochloroacetate sensitive potentiometric sensors, 386 (1999) 13

### Allergen detection

Flow immunoassay using a cation exchange column and fluorescence-labelled antibody for detection of allergen, 354 (1997) 29

# Alloy electrodes

Electrocatalysis and amperometric detection of aliphatic aldehydes at platinum-palladium alloy coated glassy carbon electrode, 330 (1996) 151

### Allovs

Determination of selenium and tellurium in nickel and nickel/ironbased alloys by graphite furnace atomic absorption spectrometry with a nickel/palladium matrix modifier, 304 (1995) 115

# Alloys of Group VIIIA and Group IB

Electrocatalysis and amperometric detection of aliphatic aldehydes at platinum-palladium alloy coated glassy carbon electrode, 330 (1996) 151

#### All-solid-state ammonium electrode

Potentiometric biosensor for lysine analysis based on a chemically immobilized lysine oxidase membrane, 371 (1998) 49

### All-solid-state chemical sensor

Plasticizer-free all-solid-state potassium-selective electrode based on poly(3-octylthiophene) and valinomycin, 385 (1999) 195

#### All-solid-state chloride-selective electrode

Potentiometric behavior of metalloporphyrin-based ion-selective electrodes: Use of silicone rubber matrix for serum chloride analysis, 367 (1998) 175

# Al<sub>2</sub>O<sub>3</sub>

Application of slurry sample introduction to a low-power inductively coupled plasma atomic emission spectrometer incorporating a mini-torch, 342 (1997) 83

# Al<sub>2</sub>O<sub>3</sub> sol-gel

Al<sub>2</sub>O<sub>3</sub> sol-gel derived amperometric biosensor for glucose, 392 (1999) 135

# Alpha emitting isotopes

Determination of mixtures of alpha emitting isotopes (242 Pu, 239+240 Pu, 238 Pu) by using liquid scintillation–moving curve fitting, 380 (1999) 83

# Alpha liquid scintillation

Study of neptunium measurement by alpha liquid scintillation with rejection of  $\beta$ - $\gamma$  emitters, 398 (1999) 205

## Alpha-amylase

Homogeneous enzyme immunoassay for pyrethroid pesticides and their derivatives using bacillary alpha-amylase as label, 347 (1997) 131

#### Alternaria mycotoxins

Relevant physicochemical factors in chromatographic separation of Alternaria alternata mycotoxins, 370 (1998) 79

## Alternating least squares

Application of multivariate curve resolution to the voltammetric data Factor analysis ambiguities in the study of weak consecutive complexation of metal ion with ligand, 341 (1997) 105

Assessment of new constraints applied to the alternating least squares method, 346 (1997) 307

Multivariate curve resolution analysis of voltammetric data obtained at different time windows: study of the system Cd<sup>2+</sup>-nitrilotriacetic acid, 371 (1998) 23

# Alternative measurement method

Comparison of alternative measurement methods, 391 (1999) 203

### Alumina

Preconcentration and separation of inorganic selenium species on activated alumina, 363 (1998) 141

#### Aluminate

- Direct determination of caustic hydroxide by a micro-titration method with dual-wavelength photometric end-point detection, 341 (1997) 297
- Simultaneous and automatic determination of hydroxide and carbonate in aluminate solutions by a micro-titration method, 388 (1999) 219

#### Aluminium

- Determination of trace aluminum in natural waters by flow-injection analysis with fluorescent detection of the lumogallion complex, 303 (1995) 211
- On-line preconcentration of aluminium with immobilized Chromotrope 2B for the determination by flame atomic absorption spectrometry and inductively coupled plasma mass spectrometry, 304 (1995) 121
- The simultaneous speciation of aluminium and iron in a flowinjection system, 306 (1995) 5
- A mechanized system for the determination of low levels of quickly reacting aluminium in natural waters, 306 (1995) 173
- A simple model for predicting the pH values of acidic natural waters, 314 (1995) 111
- Flow-injection column preconcentration directly coupled with electrothermal atomization atomic absorption spectrometry for the determination of aluminium. Comparison of column packing materials, 316 (1995) 313
- Equilibrium modelling of interferences in the visible spectrophotometric determination of aluminium(III): comparison of the chromophores chrome azurol S, eriochrome cyanine R and pyrocatechol violet, and stability constants for eriochrome cyanine R-aluminium complexes, 319 (1996) 305
- The aluminium(III)-4-nitrocatechol system: potentiometry, voltammetry and application to the determination of reactive Al(III), 345 (1997) 5
- Application of stripping voltammetry at a static mercury drop electrode for the determination of aluminium and iron in Portland cement. 353 (1997) 313
- Electrothermal atomic absorption spectrometric determination of molybdenum, aluminium, chromium and manganese in milk, 356 (1997) 267
- Ion chromatographic behavior of alkali and alkaline earth metal cations on silica gel columns with cation exchange characteristics, 359 (1998) 255
- Kinetic and thermodynamic considerations in the determination of aluminium using pyrocatechol violet: implications for the use of 'kinetic-based' determinations of metal ions in natural systems, 359 (1998) 329
- Determination of trace metal ions by capillary electrophoresis with fluorescence detection based on post-column complexation with 8-hydroxyquinoline-5-sulphonic acid, 371 (1998) 269

### Aluminium and beryllium determination

Simultaneous determination of aluminium and beryllium at the subnanogram per millilitre level by solid-phase derivative spectrophotometry, 327 (1996) 73

# Aluminium complexation

Use of fluorescence polarization to probe the structure and aluminum complexation of three molecular weight fractions of a soil fulvic acid, 321 (1996) 113

## Aluminium phosphate CME

Preconcentration and determination of Pb<sup>2+</sup> at an AlPO<sub>4</sub> containing carbon paste electrode, 304 (1995) 381

# **Aluminium speciation**

Investigation of the speciation of aluminium in drinking waters by sorption on a strong anionic-exchange resin AG1X8, 367 (1998) 215

# Aluminium-fluoride complexes

Decomplexation of aluminium-fluoride complexes by citrate-based buffers as a function of pH, aluminium and fluoride concentrations, 368 (1998) 265

#### Aluminum

- Flow injection determination of Al<sup>3+</sup> and Al<sub>13</sub>O<sub>4</sub>(OH)<sub>24</sub>(H<sub>2</sub>O)<sup>7+</sup><sub>12</sub> species using a 1.3-s reaction with 8-quinolinol-derivatised Fractogel, 343 (1997) 19
- Selection of self-absorption free analytical lines of aluminum in glow discharge optical emission spectrometry, 343 (1997) 267
- Direct fluorimetric determination of dissolved aluminum in seawater at nanomolar levels, 355 (1997) 157
- On-line separation and spectrophotometric determination of low levels of aluminum in high-salt content samples: application to analysis of hemodialysis fluids, 362 (1998) 163
- Aluminum speciation by means of anion chromatography and coupled anion/cation chromatography, 386 (1999) 77
- Influence of column temperature on the ion chromatographic separation of aluminum species, 399 (1999) 223

## Aluminum and cadmium complexes

Spectrofluorimetric flow-injection method for the successive determination of chloroxine and chlorquinaldol in pharmaceutical preparations, 326 (1996) 41

# **Aluminum corrosion**

Characterization of aluminum corrosion with a quartz crystal analyzer, 386 (1999) 229

# γ-Aluminum oxide (γ-Al<sub>2</sub>O<sub>3</sub>)

Studies on a potentiometric urea biosensor based on an ammonia electrode and urease, immobilized on a γ-aluminum oxide matrix, 341 (1997) 161

# **Aluminum toxicity**

Aluminum speciation by liquid chromatography concerning hydroand geo-chemical aspects, 332 (1996) 233

#### Aluminum(III)

Study of the reaction between nucleic acids and the trihydroxyanthroquinone-Al complex and its analytical application, 392 (1999) 291

## Alzheimer's disease

Serum stability of phosphopeptides, 352 (1997) 319

#### AM1

Simulation of infrared spectra using artificial neural networks based on semiempirical and empirical data, 331 (1996) 63

# AM1 calculations

Application of semiempirical method (AM1) to the study of tautomeric equilibria in the gas phase for simple compounds containing the amidine group: 4(5)-substituted imidazoles, 348 (1997) 431

### Amberlite CG50

Study of sorption of copper(II) on complexing resin columns by solid phase extraction, 389 (1999) 59

# Amberlite XAD-2

Pyrocatechol Violet immobilized Amberlite XAD-2: synthesis and metal-ion uptake properties suitable for analytical applications, 340 (1997) 285

#### Ambient air

Automated analysis of low-molecular weight organic acids in ambient air by a microporous tube diffusion scrubber system coupled to ion chromatography, 353 (1997) 227

#### Ambient monitoring

Determination of experimental diffusion coefficients of acetic acid and formic acid vapours in air using a passive sampler, 341 (1997) 1

#### Americium

Determination of low concentrations of americium and curium by photon/electron rejecting alpha liquid scintillation, 363 (1998)

#### Amides

Autoprotolysis in aqueous organic solvent mixtures Water-amide and water-amine binary systems, 302 (1995) 355

# Amidopyridine carrier

Selective membrane transport of dicarboxylic acids in their neutral form by a synthetic receptor containing amidopyridine groups, 343 (1997) 287

# Amiloride

Application of neural networks for response surface modeling in HPLC optimization, 364 (1998) 265

Simultaneous determination of atenolol, propranolol, dipyridamole and amiloride by means of non-linear variable-angle synchronous fluorescence spectrometry, 370 (1998) 9

Partial least-squares method in analysis by differential pulse polarography. Simultaneous determination of amiloride and hydrochlorothiazide in pharmaceutical preparations, 381 (1999)

# Amiloride hydrochloride

Spectrophotometric determination of rhenium as perrhenate by extraction with amiloride hydrochloride, 322 (1996) 107

Extraction equilibrium of the ion-associate of periodate with amiloride hydrochloride and simultaneous spectrophotometric determination of periodate and iodate by liquid-liquid extraction, 356 (1997) 85

## **Aminated PVC**

Enzyme biosensors for urea determination based on an ionophore free pH membrane electrode, 315 (1995) 289

#### Amine ionophore

Tris(2-ethylhexyl) phosphate and tricresyl phosphate as new neutral carriers for organic ammonium ion-selective membrane electrodes, 354 (1997) 301

## Amines

6-Isothiocyanatobenzo [g]phthalazine-1,4(2H,3H)-dione as a highly sensitive chemiluminescence derivatization reagent for amines in liquid chromatography, 302 (1995) 61

Autoprotolysis in aqueous organic solvent mixtures Water-amide and water-amine binary systems, 302 (1995) 355

Reversed phase-liquid chromatography of primary and secondary aliphatic amines after derivatization combined with electrochemical detection, 306 (1995) 273

Enantiomeric separation of six 2-arylpropionic acids after precolumn derivatization with various amines and alcohols on a cellulose-based chiral stationary phase, 321 (1996) 245

Liquid chromatographic determination of methylamines. Determination of trimethylamine in fish samples using a porous graphitic carbon stationary phase, 322 (1996) 63

Sensitive liquid chromatographic determination of hydrophobic primary and secondary amines by derivatization to form highly fluorescent thiazoles, 327 (1996) 153

Application of crown ethers as modifiers for the separation of amines by capillary electrophoresis, 360 (1998) 69

Off-line dansylation of amines using C<sub>18</sub> solid-phase packings: study of the fluorescence and chemiluminescence detection by post-column derivatization with oxalic acid bis(2, 4, 6-trichloro phenyl ester)/H<sub>2</sub>O<sub>2</sub> in liquid chromatography. Determination of amphetamines in urine samples, 378 (1999) 83

In situ cell for electrochemically generated Ru(bpy)<sub>3</sub><sup>3+</sup>-based chemiluminescence detection in capillary electrophoresis, 383 (1999) 213

Determination of complex formation constants for Cu(II)—Alizarin complexone with amines by capillary zone electrophoresis, 398 (1999) 75

Evaluation of trifluoroacetic acid as an ion-pair reagent in the separation of small ionizable molecules by reversed-phase liquid chromatography, 399 (1999) 249

#### **Amines UV**

A derivatization method for the determination of amines in alkaline medium, 395 (1999) 351

## Amine-selective sensors

Ionophores, ligands and reactands, 400 (1999) 65

#### Amino acid

Automated monitoring of amino acids during fermentation processes using on-line ultrafiltration and column liquid chromatography: application to fermentation medium improvement, 303 (1995) 175

Flow reversal and flow recycle air-segmented flow injection for simultaneous determination of a binary mixture, 304 (1995) 333

- Study on the vaporisation of sulphur-containing amino acids in a hydrogen flame by use of molecular emission cavity analysis and liquid chromatography, 309 (1995) 163
- Determination of enzyme substrates with an extended range of linearity, 309 (1995) 251
- Determination of branched-chain \( \ell\)-amino acids by flow-injection analysis with co-immobilized leucine dehydrogenase/NADH oxidase and chemiluminescence detection, 311 (1995) 71
- Signal enhancement of dansyl amino acids by fluorimetric detection with a packed flow cell in microcolumn liquid chromatography, 311 (1995) 231
- Room temperature phosphorescence properties of dansyl chloride and its derivatives, 312 (1995) 345
- Immobilized soft-metal affinity system for amino acids based on an 8-hydroxyquinoline-Pd(II) complex; characterization using glycine as a model, 315 (1995) 339
- Thin layer chromatography and principal component analysis for the study of the interaction of amino acids with some antisense nucleosides, 316 (1995) 105
- Chiral interaction of a polyclonal anti-dinitrophenyl antibody with dinitrophenyl-amino acids determined by an enantioselective enzyme-linked immunosorbent assay, 332 (1996) 285
- Copper dispersed into polyaniline films as an amperometric sensor in alkaline solutions of amino acids and polyhydric compounds, 335 (1996) 217
- Extraction of dansylated amino acids using the supported liquid membrane technique, 337 (1997) 183
- Hydrolysis of proteins performed at high temperatures and for short times with reduced racemization, in order to determine the enantiomers of D - and L-amino acids, 339 (1997) 99
- Detection of amino acids at conducting electroactive polymer modified electrodes using flow injection analysis. Part I. Use of macroelectrodes, 339 (1997) 201
- Detection of amino acids at conducting electroactive polymer modified electrodes using flow injection analysis. Part II. Use of microelectrodes, 339 (1997) 211
- Concentration of amino acids using supported liquid membranes with di-2-ethylhexyl phosphoric acid as a carrier, 346 (1997) 191
- On-line indirect chemiluminescence detection in capillary electrophoresis, 363 (1998) 157
- Molecularly imprinted polymeric membranes involving tetrapeptide EQKL derivatives as chiral-recognition sites toward amino acids, 365 (1998) 59
- Formation of highly fluorescent adducts between 2'-deoxyguanosine and amino acids by ionizing radiation, 365 (1998) 183
- New reagents for determination of amino acids by liquid chromatography with pre-column fluorescence derivatization, 367 (1998) 81
- Sequential-injection spectrophotometric determination of amino acids using 2,4,6-trinitrobenzenesulphonic acid, 369 (1998) 163
- Fluorescence properties of carbazole-9-yl-acetyl chloride and its application for the simultaneous determination of amino acids and biogenic amines via liquid chromatography with fluorescence detection, 382 (1999) 51
- In situ cell for electrochemically generated Ru(bpy)<sup>3+</sup><sub>3</sub>-based chemiluminescence detection in capillary electrophoresis, 383 (1999) 213

Sequential injection sample introduction microfluidic-chip based capillary electrophoresis system, 390 (1999) 27

# Amino acids and peptides

Liquid chromatographic determination of amino acids and peptides by pre-column fluorescence derivatization with N-hydroxysuccinimidyl-α-(9-acridine)-acetate, 367 (1998) 69

#### Amino acids determination

Second order multivariate curve resolution applied to the flow injection analysis of mixtures of amino acids, 335 (1996) 41

#### Amino column

Diastereoisomer separation of methylidene malonate 2.1.2 oligomerization products by liquid chromatography using a nonchiral stationary phase, 359 (1998) 57

#### Amino oxidase

Amperometric biosensors based on the immobilization of oxidases in a Prussian blue film by electrochemical codeposition, 310 (1995) 429

# 2-Amino-1-(4-nitrophenyl)-propane-1,3-diol

Determination and separation of chloramphenicol and its hydrolysate in eye-drops by capillary zone electrophoresis with amperometric detection, 394 (1999) 309

### Amino-anthraquinones

Forward-scattering degenerate four-wave mixing as a potential laser-based absorption detection method in liquid separation systems: Coupling to conventional-size liquid chromatography, 330 (1996) 189

# 4-Amino-antipyrine

- Sensitivity of modified bulk acoustic waves for the detection of phenols in the vapour phase, 318 (1995) 77
- Determination of chlorine dioxide using 4-aminoantipyrine and phenol by flow injection analysis, 341 (1997) 257

# γ-Aminobutyrohydroxamate resin

- Chelation ion chromatography as a technique for trace elemental analysis in complex matrix samples, 337 (1997) 173
- γ-Aminobutyrohydroxamate resins as stationary phases of chelation ion chromatography, 369 (1998) 225

### Aminofluorescein

pH optical sensors based on sol-gels: Chemical doping versus covalent immobilization, 367 (1998) 159

# Aminoglutethimide

Enantiomeric separation of some piperidine-2,6-dione drugs on tolylcellulose by liquid chromatography, 346 (1997) 183

#### **Aminolysis**

Cathodic stripping voltammetric determination of ceftazidime with reactive accumulation at a poly-t-lysine modified hanging mercury drop electrode, 384 (1999) 159

# 6-Aminomethylphthalhydrazide

6-Aminomethylphthalhydrazide as a highly sensitive chemiluminescence derivatization reagent for 5-hydroxyindoles in liquid chromatography, 346 (1997) 175

# 1-Aminonaphthalene-4-sulfonate

Intrinsic and 1-aminonaphthalene-4-sulfonate-specific extrinsic lyoluminescences of X-ray irradiated sodium chloride, 340 (1997) 245

### Amino-PAHs

Shpol'skii spectroscopy as a tool in environmental analysis for amino- and nitro-substituted polycyclic aromatic hydrocarbons: A critical evaluation, 333 (1996) 193

# Aminopeptidase cleavage

Serum stability of phosphopeptides, 352 (1997) 319

## 5-(4-aminophenyl)-10,15,20-tris(4-pyridyl)porphine

Asymmetric porphyrin derivative having one reactive site as a highly sensitive spectrophotometric reagent for nitrite, 354 (1997) 159

### Aminopropylsilyl-dithiooxamide

Evaluation of transition metal complexes of aminopropylsilyldithiooxamide bonded phases for gas chromatography, 341 (1997) 35

## 2-aminopyridine

Study of the nature of recognition in molecularly imprinted polymer selective for 2-aminopyridine, 381 (1999) 85

## 2-aminopyrimidine

Evaluation of a chemical vapor dosimeter using polymer-coated SERS substrates, 399 (1999) 265

#### Ammonia

Electroosmotically pumped capillary format sequential injection analysis with a membrane sampling interface for gaseous analytes, 308 (1995) 281

The determination of aqueous ammonia by ion mobility spectrometry, 311 (1995) 77

Ammonia selective bulk acoustic wave sensor based on neutral ionophores, 312 (1995) 9

On-line flow injection monitoring of ammonia in industrial liquid effluents, 314 (1995) 33

Analysis of ammonia and methylamines in natural waters by flow injection gas diffusion coupled to ion chromatography, 316 (1995) 291

Study of the performance of an optochemical sensor for ammonia, 320 (1996) 235

Selective flow injection procedures for the determination of nitrogen containing analytes by gasdialytic-fluorimetric detection of enzymatically generated ammonia, 325 (1996) 93

A coulometer for determination of residual sulfite following the dechlorination of water, 332 (1996) 155

Determination of ammonia in water and industrial effluent streams with the indophenol blue method using sequential injection analysis, 344 (1997) 281

Flow-through fiber-optic ammonia sensor for analysis of hippocampus slice perfusates, 357 (1997) 79

Synthesis and characterization of fluorophore-absorber pairs for sensing of ammonia based on fluorescence, 360 (1998) 119 In situ monitoring of copper(II) fixation on silica gel in aqueous ammonia by means of dielectric measurements and quantitative analysis of adsorbed species, 361 (1998) 273

Determination of ammonia in wastewaters containing high concentrations of surfactants by flow injection potentiometry with online sample clean-up, 367 (1998) 193

Dyeless optical detection of ammonia in the gas phase using pHresponsive polymers with reflectometric interference spectroscopy, 372 (1998) 333

Gas sensitive field-effect transistors: applications to the monitoring of biotechnological processes, 373 (1998) 253

Characterisation of the ion mobility spectrometric behaviour of a dinitrobutane under varying conditions of temperature and concentration, 375 (1998) 49

Selective monitoring of Cu<sup>(II)</sup> species using a silica modified carbon paste electrode, 385 (1999) 79

# Ammonia gas detection

Development of a monitoring tape for ammonia gas in air by fluorescence detection, 302 (1995) 201

#### Ammonia gas sensor

Potentiometric determination of salicylhydroxamic acid (urinary struvite stone inhibitor) based on the inhibition of urease activity, 351 (1997) 91

## Ammonia optode

Fluorosensors for ammonia using rhodamines immobilized in plasticized poly(vinyl chloride) and in sol-gel; a comparative study, 342 (1997) 207

#### Ammonia sensor

New potentiometric gas-gap sensor, 385 (1999) 137

#### Ammonium

Evaluation of flow injection methods for ammonium determination in wastewater samples, 311 (1995) 165

Gas diffusion techniques coupled sequential injection analysis for selective determination of ammonium, 318 (1996) 251

Calibration methods for determination of ammonium and excess acid in Kjeldahl digests by flow injection analysis, 343 (1997) 183

Titrations with electrogenerated hypobromite in the diffusion layer of interdigitated microelectrode array, 374 (1998) 283

#### Ammonium determination

Multicommutation in flow analysis. Part 5: Binary sampling for sequential spectrophotometric determination of ammonium and phosphate in plant digests, 334 (1996) 287

#### Ammonium ion

Development of an amperometric assay for NH<sub>4</sub><sup>+</sup> based on a chemically modified screen-printed NADH sensor, 373 (1998) 1 New potentiometric gas-gap sensor, 385 (1999) 137

Flow spectrophotometric determination of ammonium ion, 398 (1999) 311

# Ammonium multivariate calibration

Comparison of various peak evaluation techniques for limited and extended dynamic ranges in flow injection systems, 364 (1998) 97

#### Ammonium nitrate

Systematic approach to the identification of water-gel explosives, 375 (1998) 255

## Ammonium sulphite

Methods for on-line monitoring to be implemented in an ammonium thiosulphate production plant, 308 (1995) 187

#### Ammonium thiosulphate

Methods for on-line monitoring to be implemented in an ammonium thiosulphate production plant, 308 (1995) 187

#### Ammonium/ammonia

Selective determination of gas dialysable components in complex sample solutions using triangle programmed coulometric titration in continuous flow systems., 324 (1996) 115

#### Amperometric

Determination of breath alcohol using a differential-type amperometric biosensor based on alcohol dehydrogenase, 390 (1999) 83

Examination of an immunoglobulin modified methacrylate copolymer for amperometric immunoassay, 396 (1999) 171

#### Amperometric assay

Development of an amperometric assay for NH<sub>4</sub><sup>+</sup> based on a chemically modified screen-printed NADH sensor, 373 (1998) 1

### Amperometric biosensors

Peroxidase based amperometric biosensors for the determination of γ-aminobutyric acid, 328 (1996) 41

A bienzyme-poly-(o-phenylenediamine)-modified carbon paste electrode for the amperometric detection of ℓ-lactate, 346 (1997) 165

Solvent-resistant carbon electrodes screen printed onto plastic for use in biosensors, 347 (1997) 9

High sensitive bienzymic sensor for the detection of dithiocarbamate fungicides, 347 (1997) 63

Determination of carbamate residues in crop samples by cholinesterase-based biosensors and chromatographic techniques, 362 (1998) 59

Assessment of glucose oxidase behaviour in alcoholic solutions using disposable electrodes, 368 (1998) 219

On-line monitoring of galactoside conjugates and glycerol by flow injection analysis, 373 (1998) 57

Immobilization of enzyme on screen-printed electrode by exposure to glutaraldehyde vapour for the construction of amperometric acetylcholinesterase electrodes, 382 (1999) 277

Characterization of an electro-synthesized methoxylated polypyrrole film used as permselective barrier in amperometric biosensors by X-ray photoelectron and Fourier transform infrared spectroscopy, 389 (1999) 197

A creatinine deiminase modified polyaniline electrode for creatinine analysis, 392 (1999) 143

Evaluation of a highly sensitive amperometric biosensor with low cholinesterase charge immobilized on a chemically modified carbon paste electrode for trace determination of carbamates in fruit, vegetable and water samples, 399 (1999) 37

Highly sensitive flow-injection immunoassay system for rapid detection of bacteria, 399 (1999) 99

### Amperometric cholinesterase biosensor

The specific immunochemical detection of 2,4-dichlorophenoxyacetic acid and 2,4,5-trichlorophenoxyacetic acid pesticides by amperometric cholinesterase biosensors, 347 (1997) 71

## Amperometric detection

Electrocatalytic oxidation and determination of ascorbic acid at poly(glutamic acid) chemically modified electrode, 344 (1997) 181

Liquid chromatography-amperometric detection of nitrite using a polypyrrole modified glassy carbon electrode doped with tungstodiphosphate anion, 345 (1997) 147

The amperometric biosensor for detection of sodium dodecyl sulfate, 347 (1997) 19

A highly sensitive amperometric creatinine sensor, 351 (1997)

Capillary batch injection analysis: a novel approach for analyzing nanoliter samples, 362 (1998) 213

Separation and determination of cyclodextrins by capillary electrophoresis with amperometric detection, 369 (1998) 39

Simultaneous determination of sugars and organic acids by coelectroosmotic capillary electrophoresis with amperometric detection at a disk-shaped copper electrode, 371 (1998) 81

Separation and determination of the active ingredients in tablets of composite sulphonamides by capillary zone electrophoresis with amperometric detection, 386 (1999) 265

Determination of nonelectroactive cations by capillary electrophoresis with amperometric detection at a graphite electrode modified with a thin film of mixed-valent ruthenium-iron cyanide, 391 (1999) 29

Field-portable capillary electrophoresis instrument with potentiometric and amperometric detection, 393 (1999) 77

Determination and separation of chloramphenicol and its hydrolysate in eye-drops by capillary zone electrophoresis with amperometric detection, 394 (1999) 309

# Amperometric flow analysis

Flow-injection determination of catechol with a new tyrosinase/ DNA biosensor, 366 (1998) 137

# Amperometric gas sensors

Amperometric gas sensors with detection limits in the low ppb range, 393 (1999) 43

#### Amperometric glucose biosensor

Glucose determination in blood samples using flow injection analysis and an amperometric biosensor based on glucose oxidase immobilized on hexacyanoferrate modified nickel electrode, 350 (1997) 91

# Amperometric immunosensor

Development of an "electrically wired" amperometric immunosensor for the determination of biotin based on a non-diffusional redox osmium polymer film containing an antibody to the enzyme label horseradish peroxidase, 345 (1997) 59

#### Amperometric pyruvate sensor

A bienzyme modified carbon paste electrode for amperometric detection of pyruvate, 394 (1999) 233

## Amperometric sensors

In situ detection of trinitrotoluene and other nitrated explosives in soils, 341 (1997) 63

Solid-state microelectrode oxygen sensors, 388 (1999) 51

# Amperometric titration

Titration of low levels of Fe<sup>2+</sup> with electrogenerated Ce<sup>4+</sup>, 392 (1999) 307

### Amperometry

Evaluation of a predictive steady-state flow-injection method adapted to an open flow tube with a tracer, 303 (1995) 199

Experimental procedures for the determination of amperometric selectivity coefficients, 303 (1995) 265

An amperometric-enzymatic method for assays of inorganic phosphate and adenosine deaminase in serum based on the measurement of uric acid with a dialysis membrane-covered carbon electrode, 303 (1995) 301

Evaluation of amperometric glucose biosensors based on co-immobilisation of glucose oxidase with an osmium redox polymer in electrochemically generated polyphenol films, 304 (1995) 127

Amperometric glucose biosensor manufactured by a printing technique, 304 (1995) 157

Immunosensing with amperometric detection, using galactosidase as label and p-aminophenyl-β-d-galactopyranoside as substrate, 304 (1995) 353

A disposable amperometric immunosensor for 2,4-dichlorophenoxyacetic acid, 304 (1995) 361

Remarkably selective metallized-carbon amperometric biosensors, 305 (1995) 3

Reactivities of amperometric organic phase peroxidase-modified electrodes in the presence and absence of thiourea and ethylenethiourea as inhibitors, 305 (1995) 57

Effect of surface-active agents on amperometric NADH measurements with chemically modified electrodes, 305 (1995) 65

Chronoamperometry and pulve voltammetry of uncharged species at microelectrodes in the presence of a very low amount of supporting electrolyte, 305 (1995) 106

Electrochemical detection with microelectrodes in capillary flow systems, 305 (1995) 114

Determination of N-nitrosopiperidine in beers by liquid chromatography with reductive amperometric detection at a hanging mercury drop electrode, 305 (1995) 310

Determination of the antioxidant Irganox 1076 by anodic voltammetry and flow injection with pulsed amperometric detection at a glassy carbon electrode, 305 (1995) 324

Development of a computer controlled multichannel potentiostat for applications with flowing solution analysis, 305 (1995) 347

Optimization of amperometric microsensors for monitoring choline in the extracellular fluid of brain tissue, 307 (1995) 291

Pulsed electrochemical detection of thiocompounds following microchromatographic separations, 307 (1995) 301

Amperometric flow-through biosensor for the determination of pesticides, 308 (1995) 129

Flow-injection analysis of phenols at a graphite electrode modified with co-immobilised laccase and tyrosinase, 308 (1995) 137 A reagentless amperometric biosensor for hydrogen peroxide determination based on asparagus tissue and ferrocene mediation, 309 (1995) 35

Batch square-wave voltammetric and flow-injection amperometric determination of trace amounts of bromofenoxim, 310 (1995)

Flow injection amperometric determination of glucose and some other low molecular weight saccharides based on oligosaccharide dehydrogenase mediated by benzoquinone systems, 310 (1995) 161

Tuning of glucose oxidase modified alkylacrylate polymers employed in amperometric sensor systems, 310 (1995) 199

Electrocatalysis and amperometric detection of ethanol at ruthenium-based inorganic films with improved response stability, 310 (1995) 257

Amperometric biosensors based on the immobilization of oxidases in a Prussian blue film by electrochemical codeposition, 310 (1995) 429

Thin film bienzyme amperometric biosensors based on polymeric redox mediators with electrostatic bipolar protecting layer, 311 (1995) 15

Development of amperometric biosensors based on the immobilization of enzymes in polymer films electrogenerated from a series of amphiphilic pyrrole derivatives, 311 (1995) 23

Platinum/glassy carbon electrode as detector for liquid chromatographic determination of hydroxyl-containing compounds, 311 (1995) 37

Sulfite oxidation at a platinum glassy carbon electrode. Determination of sulfite by ion exclusion chromatography with amperometric detection, 311 (1995) 199

Evaluation of the use of free and immobilised acetylcholinesterase for paraoxon detection with an amperometric choline oxidase based biosensor, 311 (1995) 273

Transcutaneous lactate monitoring based on a micro-planar amperometric biosensor, 312 (1995) 323

Determination of trace cyanide in 3-guanidinopropionic acid by stripping preconcentration/isolation followed by flow-injection analysis with amperometric detection at silver, 313 (1995) 75

Effects of gas flow-rates on a Clark-type oxygen gas sensor, 313 (1995) 89

Sensitive measurement of ozone using amperometric gas sensors, 313 (1995) 209

Graphite-poly(tetrafluoroethylene) electrodes as electrochemical detectors in flowing systems, 314 (1995) 13

Amperometric ℓ-lactate-sensing electrode based on a polyion complex layer containing lactate oxidase. Application to serum and milk samples, 314 (1995) 233

Automatic determination of liposoluble vitamins in butter and margarine using Triton X-100 aqueous micellar solution by liquid chromatography with electrochemical detection, 315 (1995) 201

Bi-enzyme amperometric d-lactate sensor using macromolecular NAD<sup>+</sup>, 315 (1995) 297

A multichannel immunochemical sensor for determination of 2,4dichlorophenoxyacetic acid, 316 (1995) 73

Amperometric method for the determination of nitrate in water, 317 (1995) 287

- Amperometric determination of cholesterol in serum with use of a renewable surface peroxidase electrode, 318 (1995) 89
- Amperometric determination of hydrogen peroxide by direct and catalytic reduction at a copper electrode, 319 (1996) 59
- Poly(amphiphilic pyrrole)-tyrosinase-peroxidase electrode for amplified flow injection-amperometric detection of phenol, 319 (1996) 145
- Kinetics and performance of a mediated biosensor for hypoxanthine using deflavo xanthine oxidase, 319 (1996) 325
- Microfabricated amperometric creatine and creatinine biosensors, 319 (1996) 335
- Trace measurements of nucleic acids using flow injection amperometry, 319 (1996) 347
- Amperometric sensor for Propanil, 320 (1996) 263
- Towards a microelectrode sensor for the determination of oxygen in waters, 322 (1996) 83
- Parameters which influence the optimal immobilisation of oxidase type enzymes on methacrylate copolymers as demonstrated for amperometric biosensors, 323 (1996) 87
- Polypyrrole-based amperometric flow injection biosensor for urea, 323 (1996) 107
- Automated determination of lactulose in milk using an enzyme reactor and flow analysis with integrated dialysis, 324 (1996) 37
- Electrocatalytic detection of nicotinamide coenzymes by poly(oaminophenol) - and poly(o-phenylenediamine) -modified carbon paste electrodes, 325 (1996) 33
- Hydrogel matrix for three enzyme entrapment in creatine/creatinine amperometric biosensing, 325 (1996) 161
- Electrochemical study of the flavour enhancer maltol. Determination in foods by liquid chromatography with amperometric detection, 327 (1996) 65
- Alcohol biosensors based on coupled oxidase-peroxidase systems,
- Flow injection analysis with amperometric detection of cocaine in confiscated samples, 328 (1996) 67
- A disposable reagentless screen-printed amperometric biosensor for the measurement of alcohol in beverages, 329 (1996) 215
- In situ biochemical reduction of interference in an amperometric biosensor with a novel heterobilayer configuration of polypyrrole/glucose oxidase/horseradish peroxidase, 329 (1996) 223
- Direct electrocatalytic determination of dissolved peroxidases, 329 (1996) 231
- Amperometric flow injection determination of fructose in honey with a carbon paste sensor based on fructose dehydrogenase, 330 (1996) 71
- Peroxidase-modified electrodes: Fundamentals and application, 330 (1996) 123
- Theoretical treatment of the amperometric current response of multiple microelectrode arrays, 330 (1996) 139
- Electrocatalysis and amperometric detection of aliphatic aldehydes at platinum-palladium alloy coated glassy carbon electrode, 330 (1996) 151
- Immunological activities of IgG antibody on pre-coated Fc receptor surfaces, 331 (1996) 97
- Whole cell amperometric biosensor based on Aspergillus niger for determination of glucose with enhanced upper linearity limit, 331 (1996) 225

- Biosensoring of hydrogen peroxide using new methylene blue N incorporated in a montmorillonite-modified horseradish peroxidase immobilization matrix as an electron shuttle, 332 (1996) 73
- Electroimmobilisation of sulphite oxidase into a polypyrrole film and its utilisation for flow amperometric detection of sulphite, 332 (1996) 145
- Determination of purine bases by capillary zone electrophoresis with wall-jet amperometric detection, 335 (1996) 95
- Silica sol-gel immobilized amperometric biosensor for hydrogen peroxide, 335 (1996) 137
- Electrochemical characteristics of a carbon-based thick-film L-lactate biosensor using L-lactate dehydrogenase, 336 (1996) 57
- Enzyme immunoassay with amperometric flow-injection analysis using horseradish peroxidase as a label. Application to the determination of polychlorinated biphenyls, 336 (1996) 167
- Amperometric determination of nitrite via reaction with iodide using microelectrodes, 337 (1997) 49
- Whole blood glucose determination using glucose oxidase immobilized on cotton cheese cloth, 338 (1997) 135
- Flow injection amperometric and chemiluminescence individual and simultaneous determination of lysine and glucose with immobilized lysine oxidase and glucose oxidase, 338 (1997) 149
- Ferrocenyl silicon-based dendrimers as mediators in amperometric biosensors, 338 (1997) 191
- Determination of nitric oxide saturated (stock) solution by chronoamperometry on a porphyrine microelectrode, 339 (1997) 265
- Glucose oxidase/hexokinase electrode for the determination of ATP, 340 (1997) 109
- Development of an amperometric immunosensor based on flow injection analysis for the detection of red blood cells, 340 (1997) 175
- Enzyme modified amperometric sensors for choline and acetylcholine with tetrathiafulvalene tetracyanoquinodimethane as the electron-transfer mediator, 341 (1997) 43
- In situ detection of trinitrotoluene and other nitrated explosives in soils, 341 (1997) 63
- Application of a nickel-microelectrode-incorporated end-column detector for capillary electrophoretic determination of alditols and alcohols, 341 (1997) 83
- Pulsed-amperometric detection of urea in blood samples on a conducting polypyrrole-urease biosensor, 341 (1997) 155
- Determination of bovine serum albumin by capillary zone electrophoresis with end-column amperometric detection at the carbon fiber microdisk array electrode, 342 (1997) 67
- A disposable amperometric gas sensor for sulphur-containing compounds based on a chemically modified screen printed carbon electrode coated with a hydrogel, 342 (1997) 199
- Determination of ascorbic acid in a mixture of ascorbic acid and uric acid at a chemically modified electrode, 343 (1997) 49
- Amperometric enzyme electrode for the determination of urine oxalate, 343 (1997) 59
- Capillary zone electrophoresis with end-column amperometric detection for the determination of glutathione at a gold/mercury amalgam microelectrode without deoxygenation, 343 (1997)
- Indirect adsorption detection: An alternative pulsed electrochemical detection waveform, 344 (1997) 55

A new amperometric biosensor for salicylate based on salicylate hydroxylase immobilized on polipyrrole film doped with hexacyanoferrate, 347 (1997) 35

Determination of flavanols in beers with tissue biosensors, 347 (1997) 281

Speciation determination of aluminium (Al<sup>3+</sup>) by flow injection amperometry via the 1,2-dihydroxyanthraquinone-3-sulfonic acid complex, 349 (1997) 111

Amperometric detection of enzymes in capillary zone electrophoresis based on dynamic modification with surfactants, 349 (1997) 215

Blood compatibility and extended linearity of lactate enzyme electrode using poly(vinyl chloride) outer membranes, 353 (1997) 281

Coconut-based plant tissue reactor for biosensing of catechol in flow injection analysis, 354 (1997) 325

Amperometric biosensors for L-alanine and pyruvate assays in biological fluids, 355 (1997) 235

Mediator type of glucose microbial biosensor based on Aspergillus niger, 356 (1997) 217

Highly-dispersed copper microparticles on the active gold substrate as an amperometric sensor for glucose, 357 (1997) 63

An amperometric detector with a tubular electrode deposited on the capillary for capillary liquid chromatography, 360 (1998) 53

Silica sol-gel immobilized amperometric biosensor for the determination of phenolic compounds, 362 (1998) 203

Glucose oxidase/polyion complex-bilayer membrane for elimination of electroactive interferents in amperometric glucose sensor, 364 (1998) 173

Cathophoresis paint insulated carbon fibre ultramicro disc electrode and its application to in vivo amperometric monitoring of quantal secretion from single rat melanotrophs, 378 (1999) 135

Amperometric flow-through biosensor for the determination of cholinesterase inhibitors, 385 (1999) 13

Measurement and control of hydrogen peroxide concentration in alkaline solution by means of amperometric sensor system, 385 (1999) 423

Functionalized inorganic-organic composite material derivated by sol-gel for construction of mediated amperometric hydrogen peroxide biosensor, 388 (1999) 71

Amperometric immunosensor for granulocyte-macrophage colonystimulating factor using screen-printed electrodes, 389 (1999) 171

A poly(vinyl choloride) graphite composite electrode for flowinjection amperometric determination of antioxidants, 395 (1999) 217

Receptor binding protein amperometric affinity sensor for rapid  $\beta$ -lactam quantification in milk, 398 (1999) 13

Micro volume rotating disk electrode (RDE) amperometric detection for a bead-based immunoassay, 399 (1999) 3

Determination of adenosine phosphate by co-electroosmotic capillary electrophoresis with amperometric detection, 399 (1999) 259

Analysis of chemical dynamics in microenvironments, 400 (1999)

5

### Amphetamine

On-line interface between microdialysis and capillary zone electrophoresis, 307 (1995) 217

# Amphiphiles

Application of binaphthyl-based amphiphiles Determination of benzo[a]pyrene by fluorescence energy transfer, 306 (1995) 323

#### Amphiphilic pyrrole

Improvement of the analytical characteristics of an enzyme electrode for free and total cholesterol via laponite clay additives, 317 (1995) 275

# Ampicillin

Toxic interactions between clozapine and ampicillin, 319 (1996) 353

### Amylase

On-line and off-line monitoring of the production of alkaline serine protease by Bacillus licheniformis, 317 (1995) 247

## α-Amylase

Simultaneous determination of  $\alpha$ -amylase and amyloglucosidase activities using flow injection analysis with fourier transform infrared spectroscopic detection and partial least-squares data treatment, 366 (1998) 35

# Amyloglucosidase

Simultaneous determination of  $\alpha$ -amylase and amyloglucosidase activities using flow injection analysis with fourier transform infrared spectroscopic detection and partial least-squares data treatment, 366 (1998) 35

Simultaneous determination of enzyme activities by FTIR-spectroscopy in an one-step assay, 391 (1999) 19

#### Amyloid protein(s)

Application of polyacrylamide slab gel electrophoresis to the analysis and small-scale purification of amyloid proteins, 372 (1998) 161

#### Anabolic steroids

Determination of anabolic steroids in pharmaceuticals by liquid chromatography with a microemulsion of sodium dodecyl sulfate and pentanol as mobile phase, 302 (1995) 163

#### Anaesthetics

On-line interface between microdialysis and capillary zone electrophoresis, 307 (1995) 217

# Analog noise filtration

A low cost, open and flexible on-line data acquisition system for instrumental chromatography, 306 (1995) 285

# Analysis

Liquid chromatography of peptides treated with fluorogenic reagents and its application to analyses of opioid peptides, their precursors and related enzymes in rat brain, 352 (1997) 103

Nitrogen speciation analysis in solid samples by integrated pervaporation and detection, 354 (1997) 135

Long pathlength absorbance spectroscopy: trace analysis of Fe(II) using a 4.5 m liquid core waveguide, 357 (1997) 99

- A high-throughput ELISA system for surface water and groundwater analysis, 376 (1998) 61
- An enzyme immunoassay for mutagenic metabolites of the herbicide alachlor, 376 (1998) 103
- Selective extraction of polychlorinated biphenyls from dairy products using steam distillation—solvent extraction at normal pressure, 376 (1998) 313
- Optimised method for the routine determination of Technetium-99 in environmental samples by liquid scintillation counting, 380 (1999) 73
- A new organic phase enzyme electrode for the analysis of organophosphorus pesticides and carbamates, 385 (1999) 59

#### Analysis of anti-cancer drugs

Voltammetric determination of mitomycin C in the presence of other anti-cancer drugs and in urine, 358 (1998) 45

## Analysis of cosmetic products

Determination of parabens in cosmetic products by supercritical fluid extraction and capillary zone electrophoresis, 377 (1998) 85

#### Analysis of KH2PO4

Photometric determination of boron in potassium dihydrogenphosphate by the reaction of boron-containing macrobicyclic iron(II) nioximate formation, 395 (1999) 213

## Analyte

- Pseudo-nonionic complexes as a new approach to the determination of ionic amphiphilic substances, 384 (1999) 105
- Hydrogen sulfite optical sensor based on a lipophilic guanidinium ionophore, 388 (1999) 63
- Fluorescence line-narrowing spectroscopy of analytes deposited on thin-layer chromatography plates, 389 (1999) 77

#### Analyte pulse perturbation

Determination of gallic acid by an oscillating chemical reaction using the analyte pulse perturbation technique, 321 (1996) 53

# Analyte pulse perturbation technique

Simultaneous determination of gallic acid and resorcinol based on an oscillating chemical reaction by the analyte pulse perturbation technique, 334 (1996) 323

### **Analyte-matrix interactions**

Effects of analyte-matrix interactions on supercritical fluid extraction efficiencies of polycyclic aromatic hydrocarbons, 342 (1997) 41

#### Analytical chemistry

- Analytical applications of tris(2,2'-bipyridyl)ruthenium(III) as a chemiluminescent reagent, 378 (1999) 1
- A novel peak-hopping stepwise feature selection method with application to Raman spectroscopy, 388 (1999) 251

# Analytical figures of merit

Notes on two competing definitions of multivariate sensitivity, 381 (1999) 103

# **Analytical information**

Reliability of analytical information in the XXIst century, 400 (1999) 425

#### Analytical instrumentation

Supercritical fluid extraction combined on-line with cold-trap gas chromatography/mass spectrometry, 346 (1997) 81

#### Analytical methods

- A computer program for ranking analytical methods according to their fitness for purpose, 360 (1998) 215
- Nomenclature in evaluation of analytical methods including detection and quantification capabilities, 391 (1995) 105

#### Analytical performances

A study of the analytical parameters important for the sequential extraction procedure using microwave heating for Pb, Zn and Cu in calcareous soils, 369 (1998) 235

# Analytical signals

The application of the wavelet power spectrum to detect and estimate 1/f noise in the presence of analytical signals, 388 (1999) 303

#### Anatomy

Calibration methods for microdialysis sampling in vivo: muscle and adipose tissue, 400 (1999) 143

#### Anencephaly

Anodic stripping voltammetric determination of total lead in anencephalic fetuses after pressure/temperature-controlled microwave mineralization, 317 (1995) 311

#### Angiotensin II

Determination of angiotensin II in blood-brain barrier permeability studies using microbore LC with p-nitrophenyl-2,5-dihydroxyphenylacetate bis-tetrahydropyranyl ether as a pre-separation electrochemical labeling reagent, 394 (1999) 299

#### Aniline

Flow-injection and stopped-flow completely continuous flow spectrophotometric determinations of aniline and cyclohexylamine, 396 (1999) 151

# 8-Anilinonaphthalene-1-sulfonate

Solid-substrate and micellar-stabilized room temperature phosphorescence of two anilinonaphthalenesulfonates, 322 (1996) 91

## Animal grease analysis

Microwave-assisted saponification of animal greases for cholesterol determination, 371 (1998) 297

## Animal greases

Liquid chromatography-Fourier transform infrared spectrometric determination of cholesterol in animal greases, 354 (1997) 97

# Animal tissue

Determination of penicillins in animal tissues at trace residue concentrations Part I. Determination of benzylpenicillin in milk by reversed-phase liquid chromatography with solid phase extraction and liquid chromatographic fractionation clean-up, 318 (1995) 95

## Anion binding

Potentiometric anion response of poly(5,15-bis(2-aminophenyl)porphyrin) electropolymerized electrodes, 381 (1999) 197

### Anion chromatography

Aluminum speciation by means of anion chromatography and coupled anion/cation chromatography, 386 (1999) 77

#### Anion exchange

Monitoring of enzymatic hydrolysis of ivory nut mannan using online microdialysis sampling and anion-exchange chromatography with integrated pulsed electrochemical detection, 313 (1995) 15

# Anion-exchange resin

Automated flow immunoassay for detection of food allergen using anion-exchange resin and alkaline phosphatase conjugated immunoglobulin G, 370 (1998) 207

#### Anionic dve

Optical sensors for sodium, potassium and ammonium ions based on lipophilic fluorescein anionic dye and neutral carriers, 357 (1997) 85

# Anionic inorganic impurities

Capillary electrophoresis for the determination of bromide, chloride and sulfate as impurities in calcium acamprosate, 381 (1999) 29

#### Anionic sites

Methacrylate-acrylate based polymers of low plasticiser content for potassium ion-selective membranes, 324 (1996) 47

# Anionic surfactant

Study on the dimer-monomer equilibrium of a fluorescent dye and its application in nucleic acids determination, 361 (1998) 9

Optode for the specific determination of anionic surfactants, 361 (1998) 55

Spectrophotometric method for the determination of an anionic surfactant without liquid-liquid extraction, 362 (1998) 157

Anionic surfactants in acid media: a new cloud point extraction approach for the determination of polycyclic aromatic hydrocarbons in environmental samples, 392 (1999) 29

# Anionic surfactant determination

Development of a new ion-selective field-effect transistor sensor for anionic surfactants: Application to potentiometric titrations, 382 (1999) 157

### Anions

New interface for coupling flow-injection and capillary electrophoresis, 337 (1997) 117

Interaction of anions with arsenazo III-lanthanide (III) complexes, 345 (1997) 227

Complexation reactions of uranyl with arsenazo III, 355 (1997) 95Simultaneous determination of inorganic anions and metal ions by suppressed ion chromatography, 382 (1999) 291

Simple procedure for ion chromatographic determination of anions and cations at trace levels in ice core samples, 389 (1999) 21

Piezoelectric cryptand-coated quartz crystal liquid chromatographic detector for cations/anions and polar organic molecules in solutions, 392 (1999) 125

#### ANN

Selection of variables for interpreting multivariate gas sensor data, 381 (1999) 221

#### Anodic slime

Sensitivity enhancement of the methylene blue catalytic-spectrophotometric method of selenium(IV) determination by CTAB, 335 (1996) 155

# Anodic stripping

An approach to the calibrationless determination of copper and lead by anodic stripping voltammetry at thin mercury film microelectrodes. Application to well water and rain, 346 (1997) 145

Anodic stripping voltammetry of lead and cadmium using a mercury film electrode and thiocyanate, 385 (1999) 273

# Anodic stripping differential pulse voltammetry

Metal complexation model identification and the detection and elimination of erroneous points using evolving least-squares fitting of voltammetric data, 363 (1998) 261

# Anodic stripping voltammetry

In-flow speciation of copper, zinc, lead and cadmium in fresh waters by square wave anodic stripping voltammetry Part II. Optimization of measurement step, 305 (1995) 183

Flow-injection anodic stripping voltammetry at a gold electrode for selenium(IV) determination, 308 (1995) 96

Square-wave voltammetric stripping analysis of bismuth(III) at a poly(4-vinylpyridine)/mercury film electrode, 320 (1996) 43

Anodic stripping voltammetry of trace metals by batch injection analysis, 322 (1996) 151

Intercomparison of alkyllead compound determination in mussels and water by two analytical techniques: gas chromatography atomic absorption spectrometry and differential pulse anodic stripping voltammetry, 326 (1996) 57

Determination of copper in natural waters by batch and oscillating flow injection stripping potentiometry, 330 (1996) 79

Square-wave voltammetric stripping analysis of lead(II) at a Nafion®/copper-mercury film electrode, 332 (1996) 59

Additional evidence of the operational character of the lability of complexes of copper(II) with simple organic ligands, 333 (1996) 97

Hair analysis. Part 1: Differential pulse anodic stripping voltammetric determination of lead, cadmium, zinc and copper in human hair samples of persons in permanent contact with a polluted workplace environment, 335 (1996) 201

On-line trace metal determination by pre-concentration on immobilized 8-quinolinol with flow recycling anodic stripping voltammetry, 339 (1997) 155

tallinetry, 339 (1997) 133

On the suppression of zinc-copper interactions in square wave anodic stripping voltammetry in flowing solution by addition of gallium ions, 339 (1997) 167

Hair analysis. Part 2. Differential pulse anodic stripping voltammetric determination of thallium in human hair samples of persons in permanent contact with lead in their workplace, 343 (1997) 225

An inexpensive and renewable pencil electrode for use in field-based stripping voltammetry, 345 (1997) 67

- Determination of the mercury complexation capacity of natural waters by anodic stripping voltammetry, 350 (1997) 129
- Resolution of highly overlapping differential pulse anodic stripping voltammetric signals using multicomponent analysis and neural networks, 350 (1997) 163
- A new method for the voltammetric determination of molybdenum(VI) using carbon paste electrodes modified in situ with cetyltrimethylammonium bromide, 350 (1997) 319
- Simulation and fitting of anodic stripping voltammetry data for determination of the metal complexing capacity, 351 (1997) 73
- Determination of zinc in environmental samples by anodic stripping voltammetry, 376 (1998) 197
- Determination of stability constants of labile heterogeneous complexes using differential pulse polarography and anodic stripping voltammetry, 384 (1999) 17
- Microelectrode arrays: application in batch-injection analysis, 385 (1999) 257
- Determination of sub-nanomolar concentrations of lead by anodicstripping voltammetry at the silver electrode, 385 (1999) 325
- Determination of sub-µg l<sup>-1</sup> concentrations of copper by anodic stripping voltammetry at the gold electrode, 387 (1999) 85
- Stripping voltammetry for the determination of trace metal speciation and in-situ measurements of trace metal distributions in marine waters, 400 (1999) 381

#### Anodization

Anodic characterization of mercury microelectrodes for determinations of anions in real samples, 340 (1997) 77

# **Anomalous signal**

Influence of the Soret effect on the analytical signal in cw-laser thermal lens spectrometry of micellar solutions, 386 (1999) 287

# ANOVA

- Investigation of sources of variance which contribute to NIR-spectroscopic measurement of pharmaceutical formulations, 345 (1997) 185
- Comparison of alternative measurement methods, 391 (1999) 203

#### Ansamicins

Kinetic determination of ansamicins in pharmaceutical formulations and human urine. Manual and semiautomatic (stopped-flow) procedures, 376 (1998) 365

#### Antarctica

- Determination of lead isotopic ratios in Greenland and Antarctic snow and ice at picogram per gram concentrations, 311 (1995) 141
- Dissolved iron at subnanomolar levels in the Southern Ocean as determined by ship-board analysis, 377 (1998) 113

## Anthocyanins

Anthocyanic pigment determination in red fruit juices, concentrated juices and syrups using liquid chromatography, 382 (1999) 39

# Anthraquinoids

Determination of five major anthraquinoids in Chinese herbal preparations by micellar electrokinetic capillary electrophoresis, 309 (1995) 361

## Anthraquinone

Electrochemical investigations of reactive dyes; polarographic determination of anthraquinone-based chlorotriazine dyes, 315 (1995) 41

## 9,10-Anthraquinone derivatives

Lead ion-selective membrane electrodes based on some recently synthesized 9,10-anthraquinone derivatives, 360 (1998) 203

# Anthraquinone dyes

- Polarographic and voltammetric determination of Ostacetate Blue P3R, 356 (1997) 231
- Voltammetric studies of anthraquinone dyes adsorbed at a hanging mercury drop electrode using fast pulse techniques, 385 (1999) 287

#### Anthraquinone reactive dyes

Electrochemical investigations of reactive dyes; cathodic stripping voltammetric determination of anthraquinone-based chlorotriazine dyes at a hanging mercury drop electrode, 349 (1997) 101

#### Anthroic acid

Fluorescence characterization of acid-base interaction and mobility at chromatographic interfaces, 303 (1995) 17

### Antibiotics

- Solid surface room temperature phosphorescence of tetracycline antibiotics, 319 (1996) 239
- Receptor binding protein amperometric affinity sensor for rapid βlactam quantification in milk, 398 (1999) 13

# Antibodies

- Simultaneous determination of follicle stimulating hormone and luteinising hormone using a multianalyte immunosensor, 310 (1995) 251
- Immunochemical techniques: antibody production for pesticide analysis. A review, 311 (1995) 393
- Trapping method of antibodies on surfaces of polymerizing discs for enzyme immunoassay, 312 (1995) 85
- Immunological activities of IgG antibody on pre-coated Fc receptor surfaces, 331 (1996) 97
- Flow immunoassay using a cation exchange column and fluorescence-labelled antibody for detection of allergen, 354 (1997)
- Syntheses of antigens conjugated with 3-methoxy-4-hydroxyphenylglycol by Mannich reaction for enzyme immunoassay, 365 (1998) 137
- Monitor of antibodies in human salıva using a piezoelectric quartz crystal biosensor, 365 (1998) 147
- Characterisation and analytical use of a polypyrrole electrode containing anti-human serum albumin, 371 (1998) 39
- A high-throughput ELISA system for surface water and groundwater analysis, 376 (1998) 61
- Examination of an immunoglobulin modified methacrylate copolymer for amperometric immunoassay, 396 (1999) 171

## Antibody binding kinetics

New detection method for atrazine pesticides with the optical waveguide Mach-Zehnder immunosensor, 341 (1997) 171

# Antibody immobilization

Novel surface plasmon resonance sensor chip functionalized with organic silica compounds for antibody attachment, 368 (1998) 71

## Antibody-antigen interactions

Pulsed electrochemical technique for monitoring antibody-antigen reactions at interfaces, 376 (1998) 125

# Antibody-doped sol-gel

Aerosol-generated sol-gel-derived thin films as biosensing platforms, 332 (1996) 83

#### Anti-chelate antibodies

A fluorescence polarization immunoassay for cadmium(II), 399 (1999) 161

#### Anticholinesterase pesticides

Determination of anticholinesterase pesticides in real samples using a disposable biosensor, 337 (1997) 315

### Anti-dsDNA antibody

Amplified electronic transduction of oligonucleotide interactions: novel routes for Tay-Sachs biosensors, 385 (1999) 33

#### Antifouling

Preparation of antisera and development of a direct enzyme-linked immunosorbent assay for the determination of the antifouling agent Irgarol 1051, 347 (1997) 139

# Antifouling agents

Simultaneous analysis of the antifouling agents: tributyltin, triphenyltin and IRGAROL 1051 in marina water samples, 335 (1996) 267

## Antigen

Syntheses of antigens conjugated with 3-methoxy-4-hydroxyphenylglycol by Mannich reaction for enzyme immunoassay, 365 (1998) 137

A high-throughput ELISA system for surface water and groundwater analysis, 376 (1998) 61

# Antigen-antibody interactions

Modulation of the measuring range of a radioimmunoassay using an organic water two phase system, 341 (1997) 269

#### Anti-HIV antibody

Enhancement of ELISA sensitivity for the detection of rabbit anti-HIV antibodies using APAAP complex, 319 (1996) 265

# Anti-HSA

Characterisation and analytical use of a polypyrrole electrode containing anti-human serum albumin, 371 (1998) 39

# Antihypertensive

Study of the adsorptive stripping voltammetric behaviour of the antihypertensive drug Doxazosin. 329 (1996) 25

# Anti-lactose antibodies

Electrophoresis and isoelectrofocusing coupled with agar diffusion for the characterization of antibodies and enzymes, 383 (1999) 127

### Antimony

Anodic stripping potentiometric determination of antimony in environmental materials, 302 (1995) 225

Preconcentration of inorganic species of antimony by sorption on Polyorgs 31 followed by atomic absorption spectrometry detection, 342 (1997) 167

Evaluation of selective uptake of selenium (Se(IV) and Se(VI)) and antimony (Sb(III) and Sb(V)) species by baker's yeast cells (Saccharomyces cerevisiae), 345 (1997) 249

Correlation of the antimony concentration of umbilical cord and infant hair measured by hydride generation—atomic fluorescence spectrometry, 354 (1997) 1

Determination of arsenic, antimony, selenium, tellurium and bismuth in nickel metal by hydride generation atomic fluorescence spectrometry, 371 (1998) 109

Speciation of antimony(III) and antimony(V) using hydride generation inductively coupled plasma atomic emission spectrometry combined with the rate of pre-reduction of antimony, 386 (1999) 297

Simultaneous adsorptive stripping voltammetric determination of molybdenum(VI), uranium(VI), vanadium(V), and antimony(III), 394 (1999) 81

Simultaneous determination of arsenic(III,V), selenium(IV,VI), and antimony(III,V) in natural water by coprecipitation and neutron activation analysis, 395 (1999) 293

Use of hydrofluoric acid to decrease the background signal caused by sodium chloride in electrothermal atomic absorption spectrometry, 396 (1999) 279

## Antimony(III) determination

Poly(pyrogallol) film on glassy carbon electrode for selective preconcentration and stripping voltammetric determination of Sb(III), 373 (1998) 15

#### Antimycotic

Voltammetric behaviour of the antimycotic terbinafine at the hanging mercury drop electrode, 351 (1997) 97

# Antioxidant

Determination of the antioxidant Irganox 1076 by anodic voltammetry and flow injection with pulsed amperometric detection at a glassy carbon electrode, 305 (1995) 324

## Anti-oxidant activity

Voltammetric and spectroscopic studies of the oxidation of the antioxidant drug dipyridamole in acetonitrile and ethanol, 375 (1998) 223

## Antioxidants

Electrocatalytic and flow-injection determination of the antioxidant tert.-butylhydroxyanisole at a nickel phthalocyanine polymer modified electrode, 305 (1995) 49

Determination of accelerators and antioxidants in vulcanized rubber by fourier transform infrared spectrophotometry, 353 (1997) 351

On-line screening method for antioxidants by liquid chromatography with chemiluminescence detection, 383 (1999) 221

A poly(vinyl choloride) graphite composite electrode for flowinjection amperometric determination of antioxidants, 395 (1999) 217

# Antisense oligonucleotide

Prediction of an antisense-effective target site on VEGFmRNA by using RNase H and a library of random oligonucleotides, 365 (1998) 55

### Antithrombin III

Development of enzyme-cartridge flow-injection analysis for industrial process monitoring. Part III. Application for monitoring of recombinant animal cell cultivations, 315 (1995) 153

#### Antitumor agent

Development of an enzyme-linked immunosorbent assay (ELISA) for antitumor agent MKT 077, 362 (1998) 177

#### Antitumor drugs

Investigation of metallodrug-protein interactions by size-exclusion chromatography coupled with inductively coupled plasma mass spectrometry (ICP-MS), 387 (1999) 135

#### Anylamine

Post-source decay production studies of aniline and methylaniline adducts of deoxyguanosine, 397 (1999) 257

## APAAP complex

Enhancement of ELISA sensitivity for the detection of rabbit anti-HIV antibodies using APAAP complex, 319 (1996) 265

#### APCI

Monitoring of pesticides in river water based on samples previously stored in polymeric cartridges followed by on-line solid-phase extraction-liquid chromatography-diode array detection and confirmation by atmospheric pressure chemical ionization mass spectrometry, 386 (1999) 237

#### **Apolipoproteins**

Application of electrophoretic techniques to the diagnosis of disorders of lipoprotein metabolism. Examples at the levels of lipoproteins and apolipoproteins, 383 (1999) 169

# Apparent concentration stability constant

Evaluation of cadmium-metallothionein stability constants based on voltammetric measurements, 360 (1998) 189

# Apparent stability constant

Development of a simple extraction procedure using ligand competition for biogeochemically available metals of estuarine suspended particulate matter, 392 (1999) 3

# Apple juice

Improved detection of sugar addition to apple juices and concentrates using internal standard <sup>13</sup>C IRMS, 347 (1997) 359

# Applications

Solid-matrix luminescence analysis: photophysics, physicochemical interactions and applications, 351 (1997) 1

### Applied voltage

The mutual relationships between applied voltage, migration time and peak area in capillary zone electrophoresis, 342 (1997) 59

#### AP.TPR

Sulphur group analysis in solid matrices by atmospheric pressuretemperature programmed reduction, 395 (1999) 143

# Aquatic colloids

Measurement of electrokinetic and size characteristics of estuarine colloids by dynamic light scattering spectroscopy, 331 (1996)

## Aquatic humic substances

Pyrolysis electron impact mass spectrometry in studying aquatic humic substances, 350 (1997) 241

Multi-method characterization of lake aquatic humic matter isolated with two different sorbing solids, 363 (1998) 235

Multimethod characterization of lake aquatic humic matter isolated with sorbing solid and tangential membrane filtration, 364 (1998) 203

Characterization of lake-aquatic humic matter isolated with two different sorbing solid techniques: pyrolysis electron impact mass spectrometry, 391 (1999) 331

### Aquatic organisms

Automated sample clean-up procedure for organophosphorus pesticides in several aquatic organisms using normal phase liquid chromatography, 374 (1998) 215

## **Aqueous matrices**

Voltammetric study of the interaction between Se(IV) and dissolved organic matter in environmental aqueous matrices, 385 (1999) 337

## Aqueous mixtures

Autoprotolysis in aqueous organic solvent mixtures. Water/dipolar protophilic solvent binary systems, 349 (1997) 367

# Aqueous organic solvent mixtures

Ionic equilibria in aqueous organic solvent mixtures The dissociation constants of acids and salts in tetrahydrofuran/water mixtures, 340 (1997) 133

# Aqueous Solution

Spectrophotometry with liquid-core optical fibre in aqueous solution phase in the ultraviolet region, 375 (1998) 261

# Aqueous two-phase

Aqueous two-phase system of cationic and anionic surfactant mixture and its application to the extraction of porphyrins and metalloporphyrins, 369 (1998) 11

Aqueous two-phase extraction system of sodium perfluorooctanoate and dodecyltriethylammonium bromide mixture and its application to porphyrins and dyes, 390 (1999) 125

# Aqueous two-phase system

Simultaneous monitoring of glucose and L-lactic acid during a fermentation process in an aqueous two-phase system by online FIA with microdialysis sampling and dual biosensor detection, 366 (1998) 127

# Ar/H<sub>2</sub> mixture

The relationship between relative sensitivity factors and ionization potential in dc glow discharge mass spectrometry using Ar/0.2 vol.% H<sub>2</sub> mixture, 355 (1997) 129

### Archaeometry

Statistical evaluation of data obtained by inductively coupled plasma atomic emission spectrometry (ICP-AES) for archaeological copper ingots, 389 (1999) 141

#### Argania spinosa oil

Characterization of fatty acids and triacylglycerols in vegetable oils by gas chromatography and statistical analysis, 398 (1999) 253

## Arginine

Enzyme immobilization on an epoxy matrix. Determination of ℓarginine by flow-injection techniques, 308 (1995) 164

#### Argon

Effect of oxygen addition to an argon glow-discharge plasma source in atomic emission spectrometry, 306 (1995) 193

## Argon plasma

Detection of fluorine emission lines from Grimm-type glow-discharge plasmas - use of neon as the plasma gas, 324 (1996) 147

## Argon-helium plasma

Selection of self-absorption free analytical lines of aluminum in glow discharge optical emission spectrometry, 343 (1997) 267

#### Aroclor

Analysis of soil and dust samples for polychlorinated biphenyls by enzyme-linked immunosorbent assay (ELISA), 376 (1998) 67

#### Aroma

Mimicking the olfactory system by a thickness-shear-mode acoustic sensor array, 335 (1996) 117

#### Aroma analysis

The identification of an unusual volatile component in processed tobacco by gas chromatography with mass spectrometry and atomic emission detection, 335 (1996) 253

### Aromatic amines

Cloud point preconcentration and liquid chromatographic determination of aromatic amines in dyestuffs, 373 (1998) 197

# Aromatic compounds

The development of a peroxidase biosensor for monitoring phenol and related aromatic compounds, 311 (1995) 245

Fluorimetric investigation of reactions between ozone and excited state aromatic compounds on silica gel, 319 (1996) 369

A strategy for the broad range detection of compounds with affinity for nucleic acids, 347 (1997) 79

Development of a membrane inlet mass spectrometric method for analysis of air samples, 349 (1997) 359

# Aromatic glycinonitrile

Aromatic glycinonitriles and methylamines as pre-column fluorescence derivatization reagents for catecholamines, 344 (1997) 233

### Aromatic methylamine

Aromatic glycinonitriles and methylamines as pre-column fluorescence derivatization reagents for catecholamines, 344 (1997) 233

#### Aromatic sulphonates

Ultraviolet laser-induced fluorescence detection strategies in capillary electrophoresis: determination of naphthalene sulphonates in river water, 360 (1998) 109

### Aromaticity

Water solubility enhancement of pyrene in the presence of humic substances, 337 (1997) 351

Water solubility enhancement of pyrene in the presence of humic substances, by S. Tanaka et al.: comments, 355 (1997) 101

#### Array

Mimicking the olfactory system by a thickness-shear-mode acoustic sensor array, 335 (1996) 117

Three-dimensional plots from osmium redox-polymer based electrochemical sensors, 344 (1997) 159

Optimization of a charge coupled device imaging enzyme linked immuno sorbent assay and supports for the simultaneous determination of multiple 2,4-D samples, 347 (1997) 87

Highly parallel affinity sensor for the detection of environmental contaminants in water, 393 (1999) 29

#### Array detection

Highly rugged kinetic method for the enzymatic determination of DNA in agarose gel with array detection using a charge coupled device, 329 (1996) 285

# Array-based sensors

Enzymatically generated polyphenols as array-based metal-ion sensors, 370 (1998) 251

#### Arsenate

Simultaneous determination of orthophosphate and arsenate based on multi-way spectroscopic-kinetic data evaluation, 354 (1997) 241

# Arsenazo III

Spectrophotometric study of arsenazo III and its interactions with lanthanides, 314 (1995) 219

pH dependence of the reactions of arsenazo III with the lanthanides, 339 (1997) 271

Interactions of uranium and thorium with arsenazo III in an aqueous medium, 341 (1997) 263

Interaction of anions with arsenazo III-lanthanide (III) complexes, 345 (1997) 227

Complexation reactions of uranyl with arsenazo III, 355 (1997) 95

#### Arsenic

Optimized arsenic, selenium and mercury determinations in aqueous solutions by energy dispersive x-ray fluorescence after preconcentration onto zirconium-loaded activated charcoal, 302 (1995) 89

Analysis of arsenic(V) by cathodic stripping voltammetry, 306 (1995) 217

Sequential determination of arsenite and arsenate by ion chromatography, 307 (1995) 79

On-line ion exchange system coupled to inductively coupled plasma atomic emission spectrometer with ultrasonic nebulization for the separation, preconcentration and determination of arsenic(V) and monomethylarsonate, 313 (1995) 243

- Determination of sub-nanomolar concentration of arsenic(III) in natural waters by square wave cathodic stripping voltammetry, 325 (1996) 25
- Determination of arsenic by hydride generation gas diffusion flow injection analysis with electrochemical detection, 334 (1996) 193
- A dual arsenic speciation system combining liquid chromatographic and purge and trap-gas chromatographic separation with atomic fluorescence spectrometric detection, 358 (1998) 51
- Trace element profile of semiconductor materials: Gallium and arsenic, 370 (1998) 91
- Determination of arsenic, antimony, selenium, tellurium and bismuth in nickel metal by hydride generation atomic fluorescence spectrometry, 371 (1998) 109
- A field-deployable instrument for the measurement and speciation of arsenic in potable water, 380 (1999) 27
- Constant current cathodic stripping potentiometric determination of arsenic on a mercury film electrode in the presence of copper ions, 381 (1999) 207
- Simultaneous determination of arsenic(III,V), selenium(IV,VI), and antimony(III,V) in natural water by coprecipitation and neutron activation analysis, 395 (1999) 293

#### Arsenic determination

- Electrochemical approach in studying the inhibition of acetylcholinesterase by arsenate(III): analytical characterisation and application for arsenic determination, 364 (1998) 195
- Determination of traces of arsenic(III) by anodic stripping voltammetry in solutions, natural waters and biological material, 368 (1998) 211
- Determination of arsenic and vanadium in airborne related reference materials by inductively coupled plasma–mass spectrometry, 392 (1999) 299

#### Arsenic in urine

Minimization of phosphate interference in the direct determination of arsenic in urine by electrothermal atomic absorption spectrometry, 334 (1996) 177

## Arsenic speciation

- Arsenic speciation in serum of uraemic patients based on liquid chromatography with hydride generation atomic absorption spectrometry and on-line UV photo-oxidation digestion, 319 (1996) 177
- Arsenic speciation in biological samples by on-line high performance liquid chromatography-microwave digestion-hydride generation-atomic absorption spectrometry, 334 (1996) 261
- Optimisation of the extraction of arsenic species from mussels with low power focused microwaves by applying a Doehlert design, 364 (1998) 19
- Selective medium reactions for the 'arsenic(III)', 'arsenic(V)', dimethylarsonic acid and monomethylarsonic acid determination in waters by hydride generation on-line electrothermal atomic absorption spectrometry with in situ preconcentration on Zrcoated graphite tubes, 374 (1998) 231

#### Arsenic species

Cysteine enhancement of the cryogenic trap hydride AAS determination of dissolved arsenic species, 333 (1996) 89 Fast automated determination of toxicologically relevant arsenic in urine by flow injection-hydride generation atomic absorption spectrometry, 349 (1997) 313

#### Arsenic(III)

Solvent extraction of arsenic from acid medium using zinc hexamethylenedithiocarbamate as an extractant, 360 (1998) 43

## Arsenic(III) and arsenic(V)

Off-line separation and determination of inorganic arsenic species in natural water by high resolution inductively coupled plasma mass spectrometry with hydride generation combined with reaction of arsenic(V) and L-cysteine, 375 (1998) 167

#### Arsenite

Determination of volatile arsenicals in ambient air by flow injection, 338 (1997) 215

#### Arsenobetaine

Speciation of arsenobetaine in marine organisms using a selective leaching/digestion procedure and hydride generation atomic absorption spectrometry, 337 (1997) 323

# 2-(2-Arsonophenylazo)-7-(2,6-dichlorophenylazo)-1,8-dihydroxynaphthalene-3,6-disulfonic acid (2,6-dichloroarsenazo)

Synthesis and analytical application of 2,6-dichloroarsenazo as a new chromogenic reagent for bismuth, 380 (1999) 101

#### Artefacts

A dual radiotracer speciation technique with emphasis on probing of artefacts: a case study for technetium and spinach (Spinacia oleracea L.), 394 (1999) 271

### Artheromyces ramosus peroxidase

Highly sensitive chemiluminescence flow injection analysis system using microbial peroxidase and a photodiode detector, 329 (1996) 127

## Artificial intelligence

- Self-configuration of sequential injection analytical systems, 316 (1995) 27
- A comparison study of chemical sensor array pattern recognition algorithms, 384 (1999) 305

## **Artificial lipids**

- Development of a chemical vapor sensor using piezoelectric quartz crystals with coated unusual lipids, 340 (1997) 41
- Highly sensitive trilayer piezoelectric odor sensor, 387 (1999)

# Artificial neural nets

Simulation of infrared spectra using artificial neural networks based on semiempirical and empirical data, 331 (1996) 63

#### Artificial neural networks

- Classification of airborne particles by analytical scanning electron microscopy imaging and a modified Kohonen neural network (3MAP), 310 (1995) 1
- Rapid and quantitative analysis of metabolites in fermentor broths using pyrolysis mass spectrometry with supervised learning:

application to the screening of Penicillium chrysogenum fermentations for the overproduction of penicillins, 313 (1995) 25

Comparison of an adaptive resonance theory based neural network (ART-2a) against other classifiers for rapid sorting of post consumer plastics by remote near-infrared spectroscopic sensing using an InGaAs diode array, 317 (1995) 1

Independent neural network modeling of class analogy for classification pattern recognition and optimization, 342 (1997) 223

Trace-level identity confirmation from infrared spectra by library searching and artificial neural networks, 345 (1997) 173

Classification of pyrolysis mass spectra by fuzzy multivariate rule induction-comparison with regression, K-nearest neighbour, neural and decision-tree methods, 348 (1997) 389

Linear and non-linear modelling techniques for the investigation of spectrum-structure relationships, 348 (1997) 471

Neural network based electronic nose for the classification of aromatic species, 348 (1997) 503

On mass spectrometer instrument standardization and interlaboratory calibration transfer using neural networks, 348 (1997) 511

Prediction of the selectivity coefficients of a berberine selective electrode using artificial neural networks, 349 (1997) 283

On-line monitoring of a cultivation using an electronic nose, 361 (1998) 223

Application of neural networks for response surface modeling in HPLC optimization, 364 (1998) 265

Prediction of Simple Physical Properties of Mixed Solvent Systems by Artificial Neural Networks, 371 (1998) 117

Calibration in non-linear near infrared reflectance spectroscopy: a comparison of several methods, 384 (1999) 207

Artificial neural networks (ANNs) in the analysis of polycyclic aromatic hydrocarbons in water samples by synchronous fluorescence, 384 (1999) 261

Study of structure-toxicity relationship by a counterpropagation neural network, 384 (1999) 319

Automatic classification of infrared spectra using a set of improved expert-based features, 388 (1999) 145

Artificial neural networks and multivariate calibration for spectrophotometric differential kinetic determinations of food antioxidants, 396 (1999) 221

Chemically diverse modified electrodes: A new approach to the design and implementation of sensor arrays, 397 (1999) 135

Simultaneous enzymatic spectrophotometric determination of ethanol and methanol by use of artificial neural networks for calibration, 398 (1999) 83

#### Artificial nose

An artificial nose based on a micromechanical cantilever array, 393 (1999) 59

# Artificial serum

Lithium determination in artificial serum using flow injection systems with a selective solid-state tubular electrode based on NASICON membranes, 350 (1997) 7

# Artificial sweeteners

Flow-injection spectrophotometric determination of cyclamate in sweetener products with sodium 1,2-naphthoquinone-4-sulfonate, 381 (1999) 307

### Artificial wastewater

Biosensor for the estimation of low biochemical oxygen demand, 379 (1999) 185

Development of highly sensitive BOD sensor and its evaluation using preozonation, 394 (1999) 65

## Aryl oxalate

Liquid chromatographic determination of cyclosporin A using aryl oxalate chemiluminescence detection, 303 (1995) 333

#### Arylboronic acid

Performance of arylboronic acids as ionophore for inorganic anions studied by fluorometry and potentiometry, 387 (1999) 189

### Arylidenerhodanines

Use of arylidenerhodanines for the determination of Cu(II), Hg(II) and CN<sup>-</sup>, 307 (1995) 127

# Aryloxyphenoxypropionic herbicides

Soil column extraction followed by liquid chromatography and electrospray ionization mass spectrometry for the efficient determination of aryloxyphenoxypropionic herbicides in soil samples at ng g<sup>-1</sup> levels, 375 (1998) 107

#### 2-Arylpropionic acids

Enantiomeric separation of six 2-arylpropionic acids after precolumn derivatization with various amines and alcohols on a cellulose-based chiral stationary phase, 321 (1996) 245

A comparison between different approaches to estimate the aqueous  $pK_a$  values of several non-steroidal anti-inflammatory drugs, 338 (1997) 127

4-N,N-Dimethylaminosulfonyl-7-N-(2-aminoethyl)aminobenzofurazan as a new precolumn fluorescence derivatization reagent for carboxylic acids (fatty acids and drugs containing a carboxyl moiety) in liquid chromatography, 344 (1997) 227

Dissociation constants of several non-steroidal anti-inflammatory drugs in isopropyl alcohol/water mixtures, 350 (1997) 249

# **Arylpropionic acids**

Ionization constants of water insoluble arylpropionic acids in aqueous N,N-dimethylformamide mixtures from potentiometric pH-titrations, 356 (1997) 253

## Arylurea herbicides

Hapten design for compound-selective antibodies: ELISAS for environmentally deleterious small molecules, 376 (1998) 83

#### As

Determination of Ge, As, Se, Cd and Pb in plant materials by slurry sampling-electrothermal vaporization-inductively coupled plasma-mass spectrometry, 372 (1998) 365

#### Asbestos

On the use of X-ray powder diffraction for determining low levels of chrysotile asbestos in gypsum-based bulk materials: use of a synchrotron source, 350 (1997) 221

#### Ascorbate

Optimization of amperometric microsensors for monitoring choline in the extracellular fluid of brain tissue, 307 (1995) 291

### Ascorbate oxidase

Potentiometric biosensor for L-ascorbic acid based on ascorbate oxidase of natural source immobilized on ethylene-vinylacetate membrane, 385 (1999) 3

## Ascorbic acid

Experimental procedures for the determination of amperometric selectivity coefficients, 303 (1995) 265

A glucose sensor, interference free for ascorbic acid, 305 (1995) 18

On-line interface between microdialysis and capillary zone electrophoresis, 307 (1995) 217

Flow-injection chemiluminometric determination of ascorbic acid based on its sensitized photooxidation, 308 (1995) 299

Flow-injection stopped-flow spectrofluorimetric kinetic determination of total ascorbic acid based on an enzyme-linked coupled reaction, 309 (1995) 271

Covalent modification of carbon electrodes for voltammetric differentiation of dopamine and ascorbic acid, 317 (1995) 303

Determination of chlorine and dissolved oxygen in waters and of ascorbic acid in pharmaceuticals by iodimetric potentiometric titration using a plasticized poly(vinyl chloride) membrane electrode, 333 (1996) 107

Biomimic of peroxidase and enzymatic assay for ascorbic acid, 334 (1996) 303

Determination of ascorbic acid in a mixture of ascorbic acid and uric acid at a chemically modified electrode, 343 (1997) 49

Electrocatalytic oxidation and determination of ascorbic acid at poly(glutamic acid) chemically modified electrode, 344 (1997) 181

Surface and kinetic enhancement of selectivity and sensitivity in analysis with fast scan voltammetry at scan rates above 1000 V/s, 349 (1997) 67

Direct chemiluminescence determination of ascorbic acid using flow injection analysis, 356 (1997) 289

Peroxidase-based spectrophotometric methods for the determination of ascorbic acid, norepinephrine, epinephrine, dopamine and levodopa 357 (1997) 261

Quantitation of metallothionein isoforms in mouse liver on capillary zone electrophoresis, 372 (1998) 241

Electron spin resonance identification of irradiated ascorbic acid: Dosimetry and influence of powder fineness, 372 (1998) 373

Sorption-photometric determination of ascorbic acid using molybdosilicic heteropolyacid and polyurethane foam after microwave irradiation, 373 (1998) 131

Disposable integrated cuvette test for quantitative determination of vitamin C in pharmaceutical products, 379 (1999) 69

Synergetic effects in the flow injection analysis determination of catechol in the presence of excess ascorbic acid by series dual-band amperometric detection, 385 (1999) 281

# Ascorbic acid determination

Indirect determination of ascorbic acid by solid-phase spectrophotometry, 360 (1998) 143

### Ashes

Microwave-assisted pre-treatment of environmental samples for the determination of 90Sr, 379 (1999) 135

#### Ashing technique

Modeling energy transfer in a focused microwave digestor, 318 (1996) 261

#### Asparaginase reactor

Determination of L-asparagine using flow-injection systems with spectrophotometric and potentiometric detection, 336 (1996) 113

#### Asparagine

Spectrophotometric determination of /-asparagine by flow-injection analysis using /-asparaginase immobilized on an epoxy resin, 308 (1995) 170

#### Aspartame

Solid-phase reactor with copper(II) phosphate for flow-injection spectrophotometric determination of aspartame in tabletop sweeteners, 384 (1999) 167

#### Aspirin

Computer program for the determination of salicylic acid content in aspirin by derivative spectrometry, 333 (1996) 181

#### Assay

A reversed-phase high performance liquid chromatography method using solid phase extraction to quantitate thalidomide in human serum. 339 (1997) 91

Determination of creatine kinase activity and phosphocreatine in off-line and on-line modes with capillary electrophoresis, 375 (1998) 233

# Assay characterization

Enzyme-immunoassays for polychlorinated biphenyls: structural aspects of hapten-antibody binding, 347 (1997) 163

# Assay of inorganic arsenic(III, V)

Determination of As(III) and As(V) by flow injection-hydride generation-atomic absorption spectrometry via on-line reduction of As(V) by KI, 343 (1997) 5

# Assay of inorganic Cr(VI)

Selective flow-injection quantification of ultra-trace amounts of Cr(VI) via on-line complexation and preconcentration with APDC followed by determination by electrothermal atomic absorption spectrometry, 366 (1998) 163

# Assay-system

Determination of peracid and putative enzymatic peracid formation by an easy colorimetric assay, 378 (1999) 293

#### Assembly

Standard addition method in FIA. Comparison between different assemblies, 379 (1999) 89

#### Assessment of the accuracy

Estimating uncertainties of analytical results using information from the validation process, 391 (1999) 173

# Associated ion pair

Adsorption determination of ionic surfactants using an electrodeseparated piezoelectric quartz crystal, 339 (1997) 187

### ASV

Application and comparisons of chemometric techniques for calibration modelling using electrochemical/ICP-MS data for trace elements in UHQ water and humic acid matrices, 378 (1999) 235

## Asymmetric porphyrin

Asymmetric porphyrin derivative having one reactive site as a highly sensitive spectrophotometric reagent for nitrite, 354 (1997) 159

# Asymmetry errors

Asymmetric distribution of results in calibration curve and standard addition evaluations, 357 (1997) 157

# Asynchronous merging zone technique (AMZ)

Simultaneous determination of iron(II) and iron(III) by flow injection analysis A mathematical simulation of the detector response, 348 (1997) 101

#### Atenolol

Simultaneous determination of atenolol, propranolol, dipyridamole and amiloride by means of non-linear variable-angle synchronous fluorescence spectrometry, 370 (1998) 9

#### Atenolol in plasma

Validation of an automated method for the liquid chromatographic determination of atenolol in plasma: application of a new validation protocol, 391 (1999) 227

#### Atlantic meridional transect

Determination of sub-nanomolar levels of iron in seawater using flow injection with chemiluminescence detection, 361 (1998) 189

#### Atmosphere

An automated instrument for the analysis of atmospheric dimethyl sulfide and carbon disulfide, 306 (1995) 259

# Atmospheric air

Determination of CO<sub>2</sub>(g) by enhancement of luminol-cobalt(II) phthalocyanine chemiluminescence: Analysis of atmospheric air and human breath, 329 (1996) 305

#### Atmospheric contaminants

Detection of atmospheric contaminants in aerosols by surfaceenhanced Raman spectrometry, 355 (1997) 15

# Atmospheric nitrogen dioxide

Spectrophotometric flow-through gas sensor for the determination of atmospheric nitrogen dioxide, 308 (1995) 109

#### Atom trapping

Direct determination of silver at parts-per-billion level in waters by derivative atomic absorption spectrometry using the atom trapping technique, 353 (1997) 79

# Atomic absorption spectrometry

Coprecipitation with tin (IV) hydroxide followed by removal of tin carrier for the determination of trace heavy metals by graphitefurnace atomic absorption spectrometry, 302 (1995) 103

Determination of trace metals in natural waters by flame atomic absorption spectrometry following on-line ion-exchange preconcentration, 303 (1995) 341

- Determination of selenium and tellurium in nickel and nickel/ironbased alloys by graphite furnace atomic absorption spectrometry with a nickel/palladium matrix modifier, 304 (1995) 115
- On-line preconcentration of aluminium with immobilized Chromotrope 2B for the determination by flame atomic absorption spectrometry and inductively coupled plasma mass spectrometry, 304 (1995) 121
- Determination of iron in high-purity phosphoryl chloride by electrothermal atomization atomic absorption spectrometry, 304 (1995) 237
- Inductively coupled plasma mass spectrometric determination of gold in serum: comparison with flame and furnace atomic absorption spectrometry, 304 (1995) 317
- Determination of copper, cadmium, iron, manganese, nickel and zinc in Antarctic sea water. Comparison of electrochemical and spectroscopic procedures, 305 (1995) 200
- Three pressurized mineralization procedures that permit subsequent flame atomic spectrometric determination of Ca, Fe, K, Mg and Zn in bovine blood plasma-containing cookies and in standard reference materials, 306 (1995) 139
- Scanning electron microscopy with energy-dispersive electron probe X-ray analysis investigation of a sequential extraction scheme for copper, chromium, iron and aluminium speciation in marine suspended particulate matter, 306 (1995) 149
- A mechanized system for the determination of low levels of quickly reacting aluminium in natural waters, 306 (1995) 173
- Analytical evaluation of a tungsten coil atomizer for cadmium, lead, chromium, manganese, nickel and cobalt determination by electrothermal atomic absorption spectrometry, 306 (1995) 183
- Column solid phase extraction as preconcentration method for trace element determination in oxalic acid by atomic absorption spectrometry and inductively coupled plasma atomic emission spectrometry, 307 (1995) 71
- Use of submicroliter-volume samples for extending the dynamic range of flow-injection flame atomic absorption spectrometry, 308 (1995) 85
- Time-based device used for the determination of tin by hydride generation flow injection atomic absorption techniques, 308 (1995) 339
- Determination of iron and zinc in adipose tissue by on-line microwave-assisted mineralization and flow-injection graphite furnace atomic absorption spectrometry, 308 (1995) 349
- Indirect flow-injection determination of tannins in wines and tea by atomic absorption spectrometry, 308 (1995) 357
- Proposal for a metal speciation study in sediments, 309 (1995) 387
- Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for the determination of zinc by flame atomic absorption spectrometry, 309 (1995) 395
- Simultaneous multielement determination in complex matrices using frequency-modulated electrothermal atomic absorption spectrometry, 310 (1995) 181
- Determination of molybdenum in human urine by electrothermal atomization atomic absorption spectrometry, 310 (1995) 189
- Determination of lead in illicit drugs by electrothermal atomic absorption spectrometry using palladium as chemical modifier, 310 (1995) 355

- Determination of trace elements in heavy oil samples by graphite furnace and cold vapour atomic absorption spectrometry after acid digestion, 311 (1995) 85
- Determination of trace metals (Cd, Pb) in fish by electrothermal atomic absorption spectrometry after microwave digestion, 311 (1995) 135
- Determination of trace amounts of selenium and tellurium in nickelbased heat-resisting superalloys, steels and several metals by electrothermal atomic absorption spectrometry after reductive coprecipitation with palladium using ascorbic acid, 312 (1995) 157
- Orthogonal array design for the optimization of closed-vessel microwave digestion parameters for the determination of trace metals in sediments, 314 (1995) 121
- Separation of microgram quantities of Cr(III) and Cr(VI) in aqueous solutions and determination by energy dispersive X-ray fluorescence spectrometry, 315 (1995) 365
- Flow-injection column preconcentration directly coupled with electrothermal atomization atomic absorption spectrometry for the determination of aluminium. Comparison of column packing materials, 316 (1995) 313
- Flame atomic absorption spectrometric determination of cobalt in biological materials using a flow-injection system with on-line preconcentration by ion-pair adsorption, 316 (1995) 329
- Evaluation of sample preparation methods for organotin speciation analysis in sediments - focus on monobutyltin extraction, 317 (1995) 161
- Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for nickel, cobalt and manganese determination by atomic absorption spectrometry, 317 (1995) 215
- Speciation of vitamin B<sub>12</sub> analogues by liquid chromatography with flame atomic absorption spectrometric detection, 318 (1996)
- Arsenic speciation in serum of uraemic patients based on liquid chromatography with hydride generation atomic absorption spectrometry and on-line UV photo-oxidation digestion, 319 (1996) 177
- Determination of mercury in saliva with a flow-injection system, 320 (1996) 171
- Multi-element analysis of airborne particulate matter by various spectrometric methods after microwave digestion, 320 (1996) 207
- Flow system based on a binary sampling process for automatic dilutions prior to flame atomic spectrometry, 323 (1996) 47
- A new flow injection single-standard calibration method for flame atomic absorption spectrometry based on dilution by microsample dispersion, 326 (1996) 49
- Intercomparison of alkyllead compound determination in mussels and water by two analytical techniques: gas chromatography atomic absorption spectrometry and differential pulse anodic stripping voltammetry, 326 (1996) 57
- Study of interferences in graphite furnace atomic absorption spectrometry by means of experimental design, 327 (1996) 47
- Determination of butyltin compounds in marine biological samples by enzymatic hydrolysis and HG-GC-QFAAS detection, 327 (1996) 287
- Automated trace enrichment and determination of metals using a combination of supported liquid membrane for sample pretreat-

- ment and graphite furnace atomic absorption spectrometry for the determination, 327 (1996) 295
- Selective determination of palladium by on-line column preconcentration and graphite furnace atomic absorption spectrometry, 328 (1996) 1
- Microtechniques for the determination of nanomolar concentrations of trace elements in  $\leq 10$  ml of sediment porewater, 328 (1996) 13
- Slurry sampling for the determination of lead, cadmium and thallium in soils and sediments by electrothermal atomic absorption spectrometry with fast-heating programs, 328 (1996) 19
- Determination of zinc in biological materials by sequential metal vapor elution analysis with atomic absorption detection, 329 (1996) 191
- Separation and determination of trace inorganic germanium in β-carboxyethylgermanium sesquioxide by filtration chromatography and hydride generation-graphite furnace atomic absorption spectrometry, 330 (1996) 53
- Stability of bacterium-mercury complexes and speciation of soluble inorganic mercury species, 330 (1996) 89
- Thermal lens spectrometric determination of hexavalent chromium, 330 (1996) 245
- Extraction as a method for preparation of vegetable samples for the determination of trace metals by atomic absorption spectrometry, 330 (1996) 251
- Determination of highly concentrated Na, K, Mg and Ca in dialysis solution with flow injection on-line dilution and flame atomic absorption spectrometry, 331 (1996) 263
- Microwave-accelerated speciation analysis for butylin compounds in sediments and biomaterials by large volume injection capillary gas chromatography quartz furnace atomic absorption spectrometry, 332 (1996) 225
- Cysteine enhancement of the cryogenic trap hydride AAS determination of dissolved arsenic species, 333 (1996) 89
- Additional evidence of the operational character of the lability of complexes of copper(II) with simple organic ligands, 333 (1996)
- Determination of low levels of platinum group metals: new solutions, 334 (1996) 167
- Minimization of phosphate interference in the direct determination of arsenic in urine by electrothermal atomic absorption spectrometry, 334 (1996) 177
- Arsenic speciation in biological samples by on-line high performance liquid chromatography-microwave digestion-hydride generation-atomic absorption spectrometry, 334 (1996) 261
- Column solid-phase extraction of heavy metal ions on a high surface area CeO<sub>2</sub> as a preconcentration method for trace determination, 336 (1996) 141
- Determination of ultratrace metallic impurities in fluorocarbon polymers by electrothermal atomic absorption spectrometry after decomposition with a combustion system, 336 (1996) 151
- Speciation of arsenobetaine in marine organisms using a selective leaching/digestion procedure and hydride generation atomic absorption spectrometry, 337 (1997) 323
- A convenient calibrant for silicon determination, 339 (1997) 297
- Stability studies of arsenate, monomethylarsonate, dimethylarsinate, arsenobetaine and arsenocholine in deionized water, urine

- and clean-up dry residue from urine samples and determination by liquid chromatography with microwave-assisted oxidationhydride generation atomic absorption spectrometric detection, 340 (1997) 209
- Determination of physiological noble metals in human urine using liquid-liquid extraction and Zeeman electrothermal atomic absorption spectrometry, 340 (1997) 277
- Pyrocatechol Violet immobilized Amberlite XAD-2: synthesis and metal-ion uptake properties suitable for analytical applications, 340 (1997) 285
- Preconcentration of inorganic species of antimony by sorption on Polyorgs 31 followed by atomic absorption spectrometry detection, 342 (1997) 167
- Determination of oligoelements in wheat, 343 (1997) 241
- Fast automated determination of toxicologically relevant arsenic in urine by flow injection-hydride generation atomic absorption spectrometry, 349 (1997) 313
- Determination of nickel in human scalp hair by slurry sampling electrothermal atomic absorption spectrometry, 349 (1997) 319
- Direct determination of silver at parts-per-billion level in waters by derivative atomic absorption spectrometry using the atom trapping technique, 353 (1997) 79
- Determination of trace amounts of molybdenum in water samples by graphite furnace atomic absorption spectrometry with multiple injections and cool down step, 353 (1997) 85
- Speciation of Cu, Pb, Cd and Hg in waters of the Oporto coast in Portugal, using pre-concentration in a Chelamine resin column, 353 (1997) 189
- Electrothermal atomic absorption spectrometric determination of molybdenum, aluminium, chromium and manganese in milk, 356 (1997) 267
- Standard additions in flow injection analysis with atomic absorption spectrometry, 357 (1997) 151
- Analysis of bioactive fluoride-containing calcium aluminosilicate glasses, 358 (1998) 79
- Determination of five selenium compounds in urine by liquid chromatography with focused microwave assisted digestion and hydride generation–atomic absorption spectrometric detection, 374 (1998) 241
- Analytical characterization of supramolecular species determination of ruthenium and osmium in dendrimers by electrothermal atomic absorption spectrometry, 375 (1998) 285
- Empirical modelling of interferences in electrothermal atomization atomic absorption spectrometry, 376 (1998) 293
- Determination of cadmium in seawater using automated on-line preconcentration and direct injection graphite furnace atomic absorption spectrometry, 377 (1998) 255
- Determination of bismuth, indium and lead in geological and seawater samples by electrothermal atomic absorption spectrometry with nickel-containing chemical modifiers, 382 (1999) 329
- Rapid determination of lead and cadmium in biological fluids by electrothermal atomic absorption spectrometry using Zeeman correction, 390 (1999) 207
- 1,10-Phenanthroline as a complexing agent for on-line sorbent extraction/preconcentration for flow injection-flame atomic absorption spectrometry, 392 (1999) 283

- Digestion methods for analysis of fly ash samples by atomic absorption spectrometry, 395 (1999) 157
- Pseudo-total analysis for metallic elements in siliceous soil by acid digestion and flame atomic absorption spectrometry, 396 (1999)
- Study and comparison of several chemical modifiers for selenium determination in human serum by Zeeman electrothermal atomic absorption spectrometry, 398 (1999) 279
- Coprecipitation of ruthenium with chitosan and its determination by graphite furnace atomic absorption spectrometry, 398 (1999) 289

### Atomic emission detection

- Gas chromatography-atomic emission detection for quantification of polycyclic aromatic sulfur heterocycles, 376 (1998) 265
- Determination of organometallic forms of mercury, tin and lead by in situ derivatization, trapping and gas chromatography – atomic emission detection, 394 (1999) 259

#### Atomic emission detector

Membrane desolvation for the analysis of organic solutions and liquid chromatographic samples with low power helium microwave induced plasma atomic emission detection, 390 (1999) 217

#### Atomic emission spectrometry

- Supercritical fluid extraction of butyltin compounds from sediment, 304 (1995) 85
- Scanning electron microscopy with energy-dispersive electron probe X-ray analysis investigation of a sequential extraction scheme for copper, chromium, iron and aluminium speciation in marine suspended particulate matter, 306 (1995) 149
- Effect of oxygen addition to an argon glow-discharge plasma source in atomic emission spectrometry, 306 (1995) 193
- Inductively coupled plasma atomic emission spectrometric determination of beryllium in aluminium-based alloys and rock samples by introducing beryllium into the plasma as ethylberyllium species, 309 (1995) 379
- Inductively coupled plasma atomic emission spectrometric determination of cadmium in biological and environmental materials using electrothermal vaporization after in situ alkylation, 310 (1995) 369
- Determination of trace elements in heavy oil samples by graphite furnace and cold vapour atomic absorption spectrometry after acid digestion. 311 (1995) 85
- Optimised simultaneous multi-element analysis of environmental slurry samples by inductively coupled plasma atomic emission spectrometry using a segmented array charge-coupled device detector, 311 (1995) 123
- Determination of volatile sulfur compounds in water samples, beer and coffee with purge and trap gas chromatography-microwaveinduced plasma atomic emission spectrometry, 316 (1995) 93
- A flowing electrolytic hydride generator for continuous sample introduction in atomic spectrometry, 316 (1995) 129
- Determination of small amounts of palladium in wastes from reworking of spent catalysts by microwave induced plasma atomic emission spectrometry, 317 (1995) 365
- Recovery of lanthanides and yttrium from red mud by selective leaching, 319 (1996) 249

- Fluorination with polytetrafluoroethylene slurry in electrothermal vaporization-inductively coupled plasma-atomic emission spectrometry, 319 (1996) 255
- Improvement of extraction recovery for the monobutyltin species from sediment, 320 (1996) 165
- Determination of trace elements in human serum by inductively coupled plasma atomic emission spectrometry with flow injection, 320 (1996) 185
- Detection of fluorine emission lines from Grimm-type glow-discharge plasmas - use of neon as the plasma gas, 324 (1996) 147
- Pretreatment by yeast for determination of nickel and vanadium in bitumen-in-water emulsion by inductively coupled plasma atomic emission spectrometry, 327 (1996) 61
- Speciation of metals associated with natural water components by on-line membrane fractionation combined with inductively coupled plasma atomic emission and mass spectrometries, 327 (1996) 167
- Rapid determination of lithium in human serum and urine, at physiological concentrations, by inductively coupled argon plasma atomic emission spectrometry, 327 (1996) 301
- Use of a low power, high frequency stabilized capacitive plasma combined with graphite furnace vaporization for the atomic emission spectrometric analysis of serum samples, 332 (1996) 193
- Multicomponent analysis of sodium cuprate, NaCuO<sub>2-x</sub>, having a high Cu(III) content, 334 (1996) 103
- The identification of an unusual volatile component in processed tobacco by gas chromatography with mass spectrometry and atomic emission detection, 335 (1996) 253
- Xenon tetrafluoride as a decomposition agent for silicone rubber for isolation and atomic emission spectrometric determination of trace metals, 340 (1997) 1
- Elemental composition determination of organophosphorus compounds using gas chromatography and atomic emission spectrometric detection, 340 (1997) 181
- Application of slurry sample introduction to a low-power inductively coupled plasma atomic emission spectrometer incorporating a mini-torch, 342 (1997) 83
- Selection of self-absorption free analytical lines of aluminum in glow discharge optical emission spectrometry, 343 (1997) 267
- Two methods for the speciation analysis of mercury in fish involving microwave-assisted digestion and gas chromatography-atomic emission spectrometry, 350 (1997) 273

# Atomic emission spectroscopy

Membrane desolvation for the analysis of organic solutions and liquid chromatographic samples with low power helium microwave induced plasma atomic emission detection, 390 (1999) 217

#### Atomic fluorescence detection

Correlation of the antimony concentration of umbilical cord and infant hair measured by hydride generation—atomic fluorescence spectrometry, 354 (1997) 1

# Atomic fluorescence spectrometry

Studies on the reaction between cadmium and potassium tetrahydroborate in aqueous solution and its application in atomic fluorescence spectrometry, 310 (1995) 377

- Interference-free atomic spectrometric method for the determination of trace amounts of germanium by utilizing the vaporization of germanium tetrachloride, 330 (1996) 237
- A dual arsenic speciation system combining liquid chromatographic and purge and trap-gas chromatographic separation with atomic fluorescence spectrometric detection, 358 (1998) 51
- Optimization of hydride generation atomic fluorescence spectrometry for the determination of trace amounts of germanium: emphasis on acidity and interferences, 373 (1998) 303
- Separation of radiolabelled arsenic compounds produced by neutron irradiation of organoarsenic compounds, 380 (1999) 63
- Selenium speciation with on-column preconcentration high-performance liquid chromatography atomic fluorescence spectrometry using ultrasonic nebulization technique, 386 (1999) 89
- Comparison of AFS and ICP-MS detection coupled with gas chromatography for the determination of methylmercury in marine samples, 390 (1999) 245

### Atomic force microscope (AFM)

- Recovery and amplification of plasmid DNA with atomic force microscopy and the polymerase chain reaction, 361 (1998) 1
- Characterization of aluminum corrosion with a quartz crystal analyzer, 386 (1999) 229

# Atomic force microscopy

- Solvent-induced morphology changes in thin silver films, 307 (1995) 341
- Chemical bonds studied with functionalized atomic force microscopy tips, 307 (1995) 365
- Surface roughness with nanometer-scale Ag particles generated by ion implantation, 350 (1997) 209
- Atomic force microscopy of supercoiled DNA structure on mica, 365 (1998) 19
- Intercalation-induced changes in DNA supercoiling observed in real-time by atomic force microscopy, 400 (1999) 27

#### Atomic spectrometry

- Optimization of hydride generation atomic fluorescence spectrometry for the determination of trace amounts of germanium: emphasis on acidity and interferences, 373 (1998) 303
- Validation and quality control schemes based on the expression of results with uncertainty, 393 (1999) 167
- Acidified subcritical water extraction of major ash-forming elements from coal, 395 (1999) 113

#### Atomic spectroscopy

- Evaluation of selective uptake of selenium (Se(IV) and Se(VI)) and antimony (Sb(III) and Sb(V)) species by baker's yeast cells (Saccharomyces cerevisiae), 345 (1997) 249
- Trace element profile of semiconductor materials: Gallium and arsenic, 370 (1998) 91

# **Atomization mechanisms**

Investigation of the molecular species produced by the vaporization of the Group IIA metal nitrates from a graphite surface, 333 (1996) 285

# ATP

Glucose oxidase/hexokinase electrode for the determination of ATP, 340 (1997) 109 Coupling of membrane-immobilized enzyme reaction and heteropoly acid-luminol chemiluminescence reaction for the determination of adenosine-5'-triphosphate, 349 (1997) 159

### Atrazine

A direct optical immunosensor for atrazine detection, 311 (1995) 289

Entrapment of chloroplasts and thylakoids in polyvinylalcohol-SbQ.

Optimization of membrane preparation and storage conditions,
311 (1995) 437

Plant tissue electrode for the determination of atrazine, 316 (1995) 79

Performance of two immunoassays for the determination of atrazine in sea water samples as compared with on-line solid phase extraction-liquid chromatography-diode array detection, 330 (1996) 41

Determination of pesticides in water using ATR-FTIR spectroscopy on PVC/chloroparaffin coatings, 334 (1996) 85

Trace determination of triazine herbicides by means of coupledcolumn liquid chromatography and large volume injection, 338 (1997) 223

Development of a highly sensitive enzyme-linked immunosorbent assay for atrazine Performance evaluation by flow injection immunossay, 347 (1997) 149

Prototype of a newly developed immunochemical detection system for the determination of pesticide residues in water, 347 (1997) 187

Stabilization of enzyme immunoassays for atrazine, 362 (1998) 35

Amperometric immunosensors and enzyme electrodes for environmental applications, 362 (1998) 47

Non-aqueous flow-injection determination of atrazine by inhibition of immobilized tyrosinase, 362 (1998) 187

Novel surface plasmon resonance sensor chip functionalized with organic silica compounds for antibody attachment, 368 (1998) 71

Microwave-assisted extraction of atrazine from soil followed by rapid detection using commercial ELISA kit, 371 (1998) 97

Confirmation and method development for dechlorinated atrazine from reductive dehalogenation of atrazine with Fe<sup>0</sup>, 373 (1998) 153

Hapten design for compound-selective antibodies: ELISAS for environmentally deleterious small molecules, 376 (1998) 83

Use of immunoassays for biomonitoring of herbicide metabolites in urine. 376 (1998) 119

Reversible immunosensor for the automatic determination of atrazine. Selection and performance of three polyclonal antisera, 386 (1999) 201

Selective recognition of atrazine by molecularly imprinted polymer membranes. Development of conductometric sensor for herbicides detection, 392 (1999) 105

Resonant mirror-based optical immunosensor: application for the measurement of atrazine in soil, 399 (1999) 29

Flow injection immunoaffinity analysis (FIIAA) — A screening technology for atrazine and diuron in water samples, 399 (1999) 89

Evaluation of analytical methods for determining pesticides in baby food, 399 (1999) 135 Microplate immunoassay technique using polyelectrolyte carriers: kinetic studies and application to detection of the herbicide atrazine, 399 (1999) 151

Production and characterization of sulforhodamine B containing large unilamellar vesicles labeled with atrazine, 399 (1999) 185

#### Atrazine/metal interaction

Use of synergistic extraction for the study of atrazine/metal interactions, 373 (1998) 161

#### Attack of samples

Optical fibres: atomic spectroscopic methods for the determination of fluoride glasses composition, 383 (1999) 243

#### Attenuated total reflectance

Quantitative determination of polymer and mineral content in paper coatings by infrared spectroscopy. Improvements by non-linear treatments, 335 (1996) 79

# Attenuated total reflection

Ion-sensitive and selective active waveguide optodes, 342 (1997) 31

#### Authentication

Improved detection of sugar addition to apple juices and concentrates using internal standard <sup>13</sup>C IRMS, 347 (1997) 359

Authentication and differentiation of irish whiskeys by higheralcohol congener analysis, 381 (1999) 257

### Authenticity of olive oils

Precise classification of virgin olive oils with various linoleic acid contents based on triacylglycerol analysis, 364 (1998) 83

#### Autoanalyzer

A flexible computer-based technique for the analysis of data from a sea-going nutrient autoanalyser, 345 (1997) 197

A low power ultra violet spectrophotometer for measurement of nitrate in seawater: introduction, calibration and initial sea trials, 377 (1998) 167

### Autoclave destruction

Xenon tetrafluoride as a decomposition agent for silicone rubber for isolation and atomic emission spectrometric determination of trace metals, 340 (1997) 1

# **Autoclave heating**

Determination of phosphorus in turbid waters using alkaline potassium peroxodisulphate digestion, 315 (1995) 123

#### Autocorrelation

A numerical procedure for curve fitting of noisy infrared spectra, 376 (1998) 169

### Automated absorption spectroscopy

Sequential injection analysis system for determination of mercury by cold-vapor atomic absorption spectroscopy, 355 (1997) 203

# Automated analysis

Automation of gas chromatography instruments. Part I. Automated peak identification in the chromatograms of standard test mixtures, 354 (1997) 65

Automation of gas chromatography instruments. Part II. A knowledge-based system for performance assessment, 354 (1997) 77

Continuous-flow determination system based on null-point potentiometry using a nitrate ion-selective membrane, 355 (1997) 211

Time-division multiplex technique for producing concentration profiles in flow analysis, 368 (1998) 105

#### Automated biosystem

Automated analytical biosystem for urea monitoring, 327 (1996)

#### Automated flow immuno assay

Automated flow immunoassay for detection of food allergen using anion-exchange resin and alkaline phosphatase conjugated immunoglobulin G, 370 (1998) 207

# **Automated injection**

Automated injection of slurry samples in flow-injection analysis, 324 (1996) 13

#### Automated metal monitor

Validation and in situ application of an automated dissolved nickel monitor for estuarine studies, 371 (1998) 235

Validation and in situ application of an automated dissolved nickel monitor for estuarine studies, 377 (1998) 217

# Automated MS data analysis

The resolution of mixtures using data from automated probe mass spectrometry, 318 (1995) 43

# **Automated voltammetry**

Simultaneous adsorptive stripping voltammetric determination of molybdenum(VI), uranium(VI), vanadium(V), and antimony(III), 394 (1999) 81

### Automatic on-line preconcentration

Automated trace enrichment and determination of metals using a combination of supported liquid membrane for sample pretreatment and graphite furnace atomic absorption spectrometry for the determination, 327 (1996) 295

### Automatic recrystallization

Effective purification of ellagic acid by successive automatic recrystallization and absolute determination of purity by absorptivity ratio, 338 (1997) 247

# **Automatic sampler**

Application of a new automatic event-controlled sampler for heavy metals: studies on the behaviour of particle bound heavy metals in the Elbe estuary, 377 (1998) 263

# Automatic supporting electrolyte exchange

Determination of traces of arsenic(III) by anodic stripping voltammetry in solutions, natural waters and biological material, 368 (1998) 211

#### **Automatic titrations**

Consecutive titrations under non-equilibrium conditions. A new mode of automatic titration, 355 (1997) 85

Titration of low levels of Fe<sup>2+</sup> with electrogenerated Ce<sup>4+</sup>, 392 (1999) 307

# Automatic volumetric gas determination

Determination of gaseous species by monosegmented flow systems. Volumetric determination of oxygen and carbon dioxide, 349 (1997) 377

#### Automation

Linear flow gradients for automatic titrations, 308 (1995) 67

Use of submicroliter-volume samples for extending the dynamic range of flow-injection flame atomic absorption spectrometry, 308 (1995) 85

The automation of immun-FIA-systems, 313 (1995) 55

Automatic calibration in continuous flow analysis, 327 (1996)

Micro-continuous flow system for wet chemical analysis, 354 (1997) 35

Automatic multicommutation flow system for wide range spectrophotometric calcium determination, 366 (1998) 45

Automated flow-injection system for extending the linear range, 366 (1998) 271

# Autoprotolysis

Autoprotolysis in aqueous organic solvent mixtures Water-amide and water-amine binary systems, 302 (1995) 355

Autoprotolysis in aqueous organic solvent mixtures. Water/alcohol binary systems, 335 (1996) 291

Autoprotolysis in aqueous organic solvent mixtures. Water/dipolar protophilic solvent binary systems, 349 (1997) 367

# Autoreceptor

Do neurotransmitters sampled by brain microdialysis reflect functional release?, 379 (1999) 263

### Auxiliary electroosmotic pumping

Effects of separation potential, hydrostatic pressure and auxiliary electroosmotic pumping on a suppressed conductometric capillary electrophoresis separation system, 394 (1999) 1

# Avidin/biotin

Competitive nonseparation electrochemical enzyme binding/immunoassay (NEEIA) for small molecule detection, 357 (1997) 5

Highly sensitive assay of DNA abasic sites in mammalian cellsoptimization of the aldehyde reactive probe method, 365 (1998)

### Axial diffusion and dispersion

Evidence of axial diffusion accompanied by axial dispersion with zone circulating flow-injection analysis data, 309 (1995) 227

# Axial dispersion plug flow model

Modeling and optimization studies for a sequential flow based bioanalytical system, 359 (1998) 157

# Aza-aromatic compounds

Fluorescence characterization of acid-base interaction and mobility at chromatographic interfaces, 303 (1995) 17

# 3-Azabicyclo[3.3.0]octane

A derivatization method for the determination of amines in alkaline medium, 395 (1999) 351

#### Azacrown ether

Flow injection potentiometry by poly(vinyl chloride)-membrane electrodes with substituted azacrown ionophores for the determination of lead(II) and mercury(II) ions, 372 (1998) 387

#### Azinphos-ethyl

A monoclonal antibody-based ELISA for the analysis of azinphosmethyl in fruit juices, 347 (1997) 95

#### Azinphos-methyl

A monoclonal antibody-based ELISA for the analysis of azinphosmethyl in fruit juices, 347 (1997) 95

#### Azo dyes

Polarographic and voltammetric determination of selected triazinebased azo dyes with different reactive groups, 320 (1996) 31

Micellar liquid chromatographic determination of diuretics by diazotization and coupling with the Bratton-Marshall reagent, 353 (1997) 215

A novel method for the determination of vitamin C in natural orange juices by electrochemical monitoring of dediazoniation of 3-methylbenzenediazonium tetrafluoroborate, 385 (1999) 373

# 4-Azochromotropic acid phenylfluorone-molybdenum(IV) complex

A novel method for the determination of protein utilizing 4-azochromotropic acid phenylfluorone-molybdenum(VI) complex, 396 (1999) 83

# Azodicarboxamide

Fourier transform infrared spectrometry (FTIR) for qualitative and quantitative analysis of azodicarboxamide and its potential impurities, 355 (1997) 7

# Azomethine H

Study of the chelation of boron with Azomethine H by differential pulse polarography, liquid chromatography and capillary electrophoresis and its analytical applications, 317 (1995) 295

Modifications to the azomethine-H method for determining boron in water, 346 (1997) 373

### Azorubine

Voltammetry of compounds confined at the hanging mercury drop electrode surface, 385 (1999) 315

# B

# B/F separation clinical test

Enzyme immunoassay by capillary electrophoresis with laser induced fluorescence detection, 399 (1999) 63

#### Baby food

Evaluation of analytical methods for determining pesticides in baby food, 399 (1999) 135

# **Baby Hamster Kidney**

Development of enzyme-cartridge flow-injection analysis for industrial process monitoring. Part III. Application for monitoring of recombinant animal cell cultivations, 315 (1995) 153

#### Bacitracin

Enzyme immunoassay using peroxidase as a label and a dip-strip test for monitoring residual bacitracin in chicken plasma, 346 (1997) 207

# **Background correction**

Comparison of deuterium arc and Smith-Hieftje background correction for graphite furnace molecular absorption spectrometry of fluoride and chloride, 315 (1995) 167

Rapid determination of copper, lead and cadmium in unpurged seawater by adsorptive stripping voltammetry, 320 (1996) 19

Determination of sub-nanomolar concentrations of lead by anodicstripping voltammetry at the silver electrode, 385 (1999) 325

#### Backpropagation

Simulation of infrared spectra using artificial neural networks based on semiempirical and empirical data, 331 (1996) 63

# Backpropagation network (BPN)

Simple encoding of infrared spectra for pattern recognition Part 2. Neural network approach using back-propagation and associative Hopfield memory, 316 (1995) 145

A new method based on counterpropagation network algorithm for chemical pattern recognition, 388 (1999) 161

#### Bacteria

An automated sampling system using ion mobility spectrometry for the rapid detection of bacteria, 313 (1995) 63

Characterisation of bacterial proteomes by two-dimensional electrophoresis, 372 (1998) 121

#### Bacteria and toxin detection

Use of an immunomagnetic separation-fluorescent immunoassay (IMS-FIA) for rapid and high throughput analysis of environmental water samples, 376 (1998) 77

# Bacterial bioluminescence

Indirect bioluminescent determination of europium(III) using flow injection analysis and on-line reduction, 339 (1997) 225

# **Bacterial metabolites**

The influence of metabolites on enzyme based flow injection analysis, 355 (1997) 55

# Bacteriochlorophyll b

Successfully controlled isomerization and pheophytinization of bacteriochlorophyll b by weak acid in the dark in vitro, 361 (1998) 285

# Bacteriochlorophyll g

Light-independent isomerization of bacteriochlorophyll g to chlorophyll a catalyzed by weak acid in vitro, 365 (1998) 199

### Bacteriopheophytin b

Successfully controlled isomerization and pheophytinization of bacteriochlorophyll b by weak acid in the dark in vitro, 361 (1998) 285

# Bacteriorhodopsin

Optical control of enzymatic conversion of sucrose to glucose by bacteriorhodopsin incorporated into self-assembled phosphatidylcholine vesicles, 311 (1995) 211

#### Baker's yeast cells

Evaluation of selective uptake of selenium (Se(IV) and Se(VI)) and antimony (Sb(III) and Sb(V)) species by baker's yeast cells (Saccharomyces cerevisiae), 345 (1997) 249

#### Barbiturates

A novel strategy for systematic optimization of micellar electrokinetic chromatography separations, 342 (1997) 133

Separation of barbiturates in micellar liquid chromatography by means of a multifactor design, 356 (1997) 19

#### Barium-133

Magnetic recovery of radium, lead and polonium from seawater samples after preconcentration on a magnetic adsorbent of manganese dioxide coated magnetite, 328 (1996) 53

Simultaneous measurement of <sup>226</sup>Ra and <sup>133</sup>Ba using liquid scintillation counting with pulse shape discrimination, 332 (1996) 291

### Barley nucleus

Comparative analysis of topographic distribution of acetylated histone H4 by using confocal microscopy and a deconvolution system, 365 (1998) 9

### Base enhancement

Base-activated latent fingerprints fumed with a cyanoacrylate monomer. A quantitative study using Fourier-transform infra-red spectroscopy, 362 (1998) 171

# Base metals

Adsorptive separation of some metal ions by complexing agent types of chemically modified chitosan, 388 (1999) 209

#### Rase oil

Liquid chromatographic determination of base oil composition and content in lubricating oils containing dispersants of the polybutenylsuccinimide type, 306 (1995) 73

#### Bases

Ionic equilibria in aqueous organic solvent mixtures The dissociation constants of acids and salts in tetrahydrofuran/water mixtures, 340 (1997) 133

Selective determination of protolytes by flow injection analysis. A guide for the rational selection of reagent composition, 344 (1997) 271

#### **Basic character**

Separation of sets of mono- and diphosphorylated peptides by reversed-phase high performance liquid chromatography, 352 (1997) 327

#### Basic drugs

Study on the chiral separation of basic drugs by capillary zone electrophoresis using  $\beta$ -CD and derivatized  $\beta$ -CDs as chiral selectors, 359 (1998) 39

# Basic triphenylmethane dye

Resonance Rayleigh scattering of chromium(VI)-iodide-basic triphenylmethane dye systems and their analytical application, 379 (1999) 53

#### Basicity

Spectrophotometric study of the solubility and the protolytic properties of 1-(2-pyridylazo)-2-naphthol in different ethanol-water solutions, 360 (1998) 153

Protonation constants of some N-substituted thiophene-2-carboxamidoximes, 392 (1999) 343

#### Batch injection analysis

Anodic stripping voltammetry of trace metals by batch injection analysis, 322 (1996) 151

Poly(methylene blue) modified electrode sensor for haemoglobin, 385 (1999) 119

#### Batch mode

Additional evidence of the operational character of the lability of complexes of copper(II) with simple organic ligands, 333 (1996) 97

### **Batch-injection analysis**

Microelectrode arrays: application in batch-injection analysis, 385 (1999) 257

# Bathocuproine

Determination of copper speciation in freshwater samples through SPE-spectrophotometry, 343 (1997) 259

#### Bathocuproine disulphonate

Application of internal standard for micro extraction-spectrophotometric determination of copper in serum and in natural waters, 387 (1999) 217

## Bathophenanthroline

Membrane sensors for the selective determination of fluorouracil, 363 (1998) 81

# Bathophenanthroline disulfonic acid

Specific separation of nickel ion with bathophenanthroline disulfonic acid by capillary zone electrophoresis, 396 (1999) 117

#### Battery-powered FI analyser

Portable battery-powered flow injection analyser for volatile alcohols using semiconductor gas sensors, 321 (1996) 61

#### **BAW DNA biosensor**

Immobilization of DNA on silver surface of bulk acoustic wave sensor and its application to the study of UV-C damage, 374 (1998) 31

# BCRL series II colour standards

Comparison of CIE chromaticity values, 380 (1999) 285

#### **BDF** electrode

Voltammetric and amperometric study of electrochemical activity of boron-doped polycrystalline diamond thin film electrodes, 333 (1996) 125

#### **BDJ** detector

A colorimetric method with the use of BDJ detector for seawater pH measurement, 377 (1998) 179

#### Beam geometry

Infrared regular reflectance and transmittance instrumentation and standards at NIST, 380 (1999) 303

#### BEC

Multivariate data analysis as a tool for evaluating emission intensity, background equivalent concentration and detection limit obtained for different plasma positions in direct current plasma-atomic emission spectrometry, 354 (1997) 211

#### Beer

Flow analysis with membrane separation and time based sampling for ethanol determination in beer and wine, 305 (1995) 241

Determination of N-nitrosopiperidine in beers by liquid chromatography with reductive amperometric detection at a hanging mercury drop electrode, 305 (1995) 310

Liquid chromatographic determination of 2-furaldehyde and 5hydroxymethyl-2-furaldehyde in beer, 306 (1995) 57

Membrane inlet ion mobility spectrometry for on-line measurement of ethanol in beer and in yeast fermentation, 309 (1995) 317

Determination of volatile sulfur compounds in water samples, beer and coffee with purge and trap gas chromatography-microwave-induced plasma atomic emission spectrometry, 316 (1995) 93

Determination of flavanols in beers with tissue biosensors, 347 (1997) 281

#### Benalaxyl

Development of an enzyme-linked immunosorbent assay for benalaxyl and its application to the analysis of water and wine, 392 (1999) 85

### Bence Jones proteinuria

High resolution two-dimensional electrophoresis of human urinary proteins, 372 (1998) 147

#### Renzene

Toward development of a humidity correction algorithm for surface acoustic wave sensors Part 4. The effect of coating mass, relative humidity and temperature on the isosteric heat of adsorption of benzene, toluene, 2-nitrotoluene and 2,4-dinitrotoluene onto platinum/lead-coated piezoelectric crystals, 343 (1997) 215

#### Benzene derivatives

Determination of benzene derivatives in water by solid-phase microextraction, 343 (1997) 101

# Benzene toluene and MTBE determination

Vapour generation-Fourier transform infrared spectrometric determination of benzene, toluene and methyl tert.-butyl ether in gasolines, 333 (1996) 157

#### Benzene-disulfo-chloride

Derivatization of alcohols using acridone-9-N-acetyl-benzene-disulfonate as a condensation agent and its application for the determination of volatile alcohols in human plasma by liquid chromatography with fluorescence detection, 391 (1999) 43

#### Benzhexol hydrochloride

Determination of benzhexol hydrochloride and ethambutol hydrochloride tablets by liquid chromatography, 314 (1995) 77

#### Benzimidazole

Solvent effects on the fluorescent emission of some new benzimidazole derivatives, 303 (1995) 73

# Benzodiazepines

An automated screening system for benzodiazepines in human urine, 366 (1998) 93

#### Benzoic acid

Evaluation of a chemical vapor dosimeter using polymer-coated SERS substrates, 399 (1999) 265

#### Benzophenone-3

Determination of benzophenone-3 and metabolites in water and human urine by solid-phase microextraction and quadrupole ion trap GC-MS, 371 (1998) 195

# Benzophenoxazine

Investigation of a novel chronopotentiometric detection method using a redox mediator modified carbon electrode, 310 (1995) 241

### Benzoquinone

Flow injection amperometric determination of glucose and some other low molecular weight saccharides based on oligosaccharide dehydrogenase mediated by benzoquinone systems, 310 (1995) 161

# 1,2-Benzoquinone

Formation of a stable adduct between 1,2-benzoquinone and dimethylamine and its application to the spectrophotometric determination of 1,2-benzoquinone, 351 (1997) 259

# Benzothiazoles

Analysis of copper corrosion inhibitors by capillary zone electrophoresis, 321 (1996) 215

# Benzoylecgonine

Rapid screening method for cocaine and benzoylecgonine in saliva samples, 372 (1998) 349

Voltammetric determination of benzoylecgonine, 389 (1999) 219

# Benzo[a]pyrene

Identification of stereoisomeric benzo[a]pyrene tetrols by reversedphase liquid chromatography coupled semi-on-line to fluorescence line-narrowing spectroscopy, 303 (1995) 3

Application of binaphthyl-based amphiphiles Determination of benzo[a]pyrene by fluorescence energy transfer, 306 (1995) 323

Determination of polycyclic aromatic hydrocarbons by spectrofluorimetry, 388 (1999) 27

# Benzyl disulphide

Lead-selective electrode by using benzyl disulphide as ionophore, 378 (1999) 145

#### Benzylamine

Simple and highly sensitive determination of morphine in rat plasma by liquid chromatography with fluorescence detection, 387 (1999) 121

# Benzylpenicillin

Determination of penicillins in animal tissues at trace residue concentrations Part I. Determination of benzylpenicillin in milk by reversed-phase liquid chromatography with solid phase extraction and liquid chromatographic fractionation clean-up, 318 (1995) 95

#### Benzyltributylammonium cation

Spectrophotometric determination of bismuth after extraction of benzyltributylammonium tetraiodobismuthate(III), 355 (1997) 167

### Benzyltrimethylammonium chloride

Application of a silica gel column for the simultaneous determination of alkali and alkaline-earth metal ions with indirect photometric detection using benzyltrimethylammonium chloride as visualization agent, 341 (1997) 225

#### Berberine

Spectrofluorimetric determination of berberine in oriental pharmaceutical preparations by flow-injection analysis coupled with liquid-liquid extraction, 308 (1995) 329

### Beryllium

Inductively coupled plasma atomic emission spectrometric determination of beryllium in aluminium-based alloys and rock samples by introducing beryllium into the plasma as ethylberyllium species, 309 (1995) 379

# Beryllon III

Study of the enhancement of the boron-beryllon III system by anion surfactant using oscillopolarography, 309 (1995) 63

Voltammetric determination of boron in plasma using Beryllon(III) as a ligand, 318 (1996) 303

# Betamethasone

Determination of betamethasone and dexamethasone in plasma by fluorogenic derivatization and liquid chromatography, 307 (1995) 103

#### Beverages

Determination of tin in canned fruit juices by stripping potentiometry, 333 (1996) 115

Flow-injection spectrophotometric determination of citric acid in beverages based on a photochemical reaction, 366 (1998) 231

#### Bi(III

Influence of Triton X-100 in stripping potentiometry, 333 (1996) 233

# Biacetyl

Sensitized room temperature phosphorescence of biacetyl in AOT reversed micelles-dodecylammonium  $\alpha$ -naphthylacetate as energy donor, 319 (1996) 231

#### Riscore

Diphenylurea hapten sensing with a monoclonal antibody and its Fab fragment: Kinetic and thermodynamic investigations, 362 (1998) 101

#### Biamperometry

Flow-injection biamperometric determination of nitrate (by photoreduction) and nitrite with the NO<sub>2</sub>/I<sup>-</sup> reaction, 366 (1998) 241

Study of various indicating redox systems on the indirect flowinjection biamperometric determination of pharmaceuticals, 396 (1999) 161

#### BiAS

Determination of non-ionic surfactants adsorbed on particles of surface water by an indirect tensammetric method combined with the BiAS separation scheme, 331 (1996) 131

Comparison of alternative measurement methods, 391 (1999) 203

#### Bias effects

Combination of flow injection with capillary electrophoresis. Part 6.

A bias-free sample introduction system based on electroosmotic-flow traction, 398 (1999) 65

# Bias evaluation

Detection of bias in method comparison by regression analysis, 338 (1997) 19

#### Bicarbonate

Effect of organic acids on the determination of carbonate species in solutions, 318 (1996) 239

#### **Bidimensional NMR**

Differential pulse polarographic determination of ceftazidime in urine samples with and without prior extraction, 351 (1997) 105

Determination of the vinylsulphone azo dye, remazol brilliant orange 3R, by cathodic stripping voltammetry, 385 (1999) 385

# Bienzymatic electrode

Improvement of the analytical characteristics of an enzyme electrode for free and total cholesterol via laponite clay additives, 317 (1995) 275

#### Bi-enzyme amplifier

A redox-label immunosensor on basis of a bi-enzyme electrode, 344 (1997) 119

#### Bienzyme conjugate

Affinity enzymometric assay for detection of organophosphorus compounds, 357 (1997) 13

# Bienzyme electrode

An enzymatic amplification cycle for high sensitive immunoassay, 328 (1996) 27

Bienzymatic potentiometric electrodes for creatine and L-arginine determination, 333 (1996) 215

# Biionic potential

Potentiometric properties and impedance spectroscopic data of poly(vinyl chloride) membranes containing quaternary ammonium salts of different chemical structure, 393 (1999) 19

# Bilayer lipid membranes

Electrochemical investigation of transduction of interactions of aflatoxin M<sub>1</sub> with bilayer lipid membranes (BLMs), 350 (1997) 121

Ellipsometric determination of the structure of surface-stabilized bilayer lipid membranes on silver metal, 357 (1997) 73

#### Bilayers

Scanning tunneling microscopic observations of commensurate crystalline structures for horizontally deposited cadmium stearate bilayers on graphite, 307 (1995) 377

#### Bile

Determination of cephalosporins in urine and bile by capillary zone electrophoresis, 349 (1997) 207

#### **Bilinear** calibration

Interactive rank annihilation: a graphic approach to quantification in grey multicomponent systems, 316 (1995) 225

#### Bilinear multivariate calibration

Development of a method for the systematic use of bilinear multivariate calibration methods for the correction of interferences in inductively coupled plasma-mass spectrometry, 358 (1998) 205

# Bilirubin

Chemiluminescence arising from the oxidation of bilirubin in aqueous media, 333 (1996) 267

A fiber optic sensor for rapid analysis of bilirubin in serum, 353 (1997) 263

# Binaphthyl-based amphiphile

Efficient quenching of the fluorescence of binaphthyl-based amphiphiles by mercury(II) complexes, 320 (1996) 115

#### Binaphthyls

Application of binaphthyl-based amphiphiles Determination of benzo[a]pyrene by fluorescence energy transfer, 306 (1995) 323

### Binary eutectic alloys

Direct stripping voltammetric method for the determination of small concentrations of one component in binary alloys, 327 (1996) 107

# **Binary mixtures**

Spectrophotometric determination of Allura Red (R40) in soft drink powders using the universal calibration matrix for partial least squares multivariate method, 330 (1996) 19

#### Binary sampling

Binary search in flow titration employing photometric end-point detection, 313 (1995) 177

Multicommutation in flow analysis. Part 5: Binary sampling for sequential spectrophotometric determination of ammonium and phosphate in plant digests, 334 (1996) 287 A multicommutated flow system with on-line compensation of the Schlieren effect applied to the spectrophotometric determination of pindolol, 366 (1998) 209

Multicommutation in flow analysis. Part 6. Binary sampling for wide concentration range turbidimetric determination of sulphate in plant digests, 366 (1998) 251

Sampling strategies in sequential injection analysis: Exploiting the monosegmented-flow approach, 366 (1998) 257

Monosegmented flow system exploiting multicommutation applied to spectrophotometric determination of manganese in soybean digests, 386 (1999) 129

#### Binary sampling process

Flow system based on a binary sampling process for automatic dilutions prior to flame atomic spectrometry, 323 (1996) 47

#### Binary search

Automatic potentiometric titration in monosegmented flow system exploiting binary search, 387 (1999) 165

#### **Binary solvents**

Variation of acidity constants and pH values of some organic acids in water-2-propanol mixtures with solvent composition. Effect of preferential solvation, 302 (1995) 109

#### Binding

Interaction of Hg(II) with soil-derived humic substances, 341 (1997)

Europium binding by fulvic acids, 369 (1998) 171

### **Binding abilities**

Chromium(III) binding abilities of humic acids, 317 (1995) 195

# **Binding constant**

Voltammetric studies of the interaction of daunomycin anticancer drug with DNA and analytical applications, 373 (1998) 29

Affinity between immobilised monoclonal and polyclonal antibodies and steroid-enzyme tracers increases sharply at high surface density, 381 (1999) 133

# **Binding process**

Dynamic analysis of the binding process of bovine serum albumin on glutaraldehyde-activated controlled pore glass, 308 (1995) 261

#### **Binding reaction**

A novel method for the determination of protein utilizing 4-azochromotropic acid phenylfluorone-molybdenum(VI) complex, 396 (1999) 83

#### **Binding sites**

Binding study on 5,5-diphenylhydantoin imprinted polymer constructed by utilizing an amide functional group, 394 (1999) 353

# Binuclear complex

Electrospray ionization mass spectrometry of metal complexes. Gas phase formation of a binuclear copper(II)–5-Br-PADAP complex, 390 (1999) 193

# Binuclear organotin compound

Polymeric membrane phosphate sensitive electrode based on binuclear organotin compound, 338 (1997) 209

### Bioactive fluoride-containing glasses

Analysis of bioactive fluoride-containing calcium aluminosilicate glasses, 358 (1998) 79

#### Bioactive peptides

Potentiometric stripping analysis of bioactive peptides at carbon electrodes down to subnanomolar concentrations, 332 (1996) 49

Analysis of peptides from bovine hemoglobin and tuna myoglobin enzymatic hydrolysate: use of HPLC with on-line second-order derivative spectroscopy for the characterization of biologically active peptides, 352 (1997) 201

### Bioaffinity assays

Electrochemiluminescent labels for applications in fully aqueous solutions at oxide-covered aluminium electrodes, 386 (1999)

#### Bioanalysis

The SFSTP guide on the validation of chromatographic methods for drug bioanalysis: from the Washington Conference to the laboratory, 391 (1999) 135

Validation of an automated method for the liquid chromatographic determination of atenolol in plasma: application of a new validation protocol, 391 (1999) 227

Demonstration of a separations-based fiberoptic sensor for bioanalysis, 399 (1999) 201

Bioanalytical applications of fast capillary electrophoresis, 400 (1999) 163

#### Bioassays

Chemiluminescence assays of organophosphorus and carbamate pesticides, 302 (1995) 53

### Bioautograph technique

Extension of the bioautograph technique for multiresidue determination of fungicide residues in plants and water, 311 (1995) 423

#### Bioavailability

Nickel speciation of fly ash by phase extraction, 349 (1997) 121 Whole cell- and protein-based biosensors for the detection of bioavailable heavy metals in environmental samples, 387 (1999) 235

#### Biochemical amplifier

An enzymatic amplification cycle for high sensitive immunoassay, 328 (1996) 27

#### Biochemical oxygen demand

Fabrication of oxygen electrode arrays and their incorporation into sensors for measuring biochemical oxygen demand, 357 (1997) 41

### **Biochemical preoxidation**

In situ biochemical reduction of interference in an amperometric biosensor with a novel heterobilayer configuration of polypyrrole/glucose oxidase/horseradish peroxidase, 329 (1996) 223

# **Biocompatible polymers**

Electroanalytical and surface characterization of encapsulated implantable membrane planar microsensors, 314 (1995) 1

# Bioelectrocatalytic recycling

Sensitive catecholamine measurement using a monoenzymatic recycling system, 368 (1998) 233

### Bioelectrochemistry

First direct interfacial electron transfer between a biomolecule and a solid electrode in non-aqueous media: direct electrochemistry of microperoxidase-11 at glassy carbon in dimethyl sulfoxide solution, 307 (1995) 245

Electrochemical oxidation of mitoxantrone at a glassy carbon electrode, 385 (1999) 401

# Biogenic amines

Fluorescence properties of carbazole-9-yl-acetyl chloride and its application for the simultaneous determination of amino acids and biogenic amines via liquid chromatography with fluorescence detection, 382 (1999) 51

Waveform optimization for integrated square-wave detection of biogenic amines following their liquid chromatographic separation, 390 (1999) 45

#### Biogenic calcite

Quantitative in situ microanalysis of minor and trace elements in biogenic calcite using infrared laser ablation – inductively coupled plasma mass spectrometry: a critical evaluation, 378 (1999) 261

#### Biogenic fuels

Investigation of organic pollutants from house heating systems using biogenic fuels and correlations with other exhaust gas components, 393 (1999) 131

# **Bio-inorganic chemistry**

Biochemical speciation analysis by hyphenated techniques, 400 (1999) 321

# Biological and environmental materials

Cathodic stripping potentiometric determination of selenium in biological and environmental materials on a combined electrode with a rotating sample platform, 338 (1997) 199

### Biological detection

Development and demonstration of an immobilised-polyphenol oxidase bioprobe for the detection of phenolic pollutants in water, 389 (1999) 161

# Biological dosimetry

Mammalian cells as biomonitors of UV-exposure, 387 (1999) 281

# **Biological fluids**

Flow-injection chemiluminometric determination of some phenothiazines in dosage forms and biological fluids, 358 (1998) 255

# **Biological liquids**

Chemical sensor array for multicomponent analysis of biological liquids, 385 (1999) 131

# **Biological materials**

Time-based device used for the determination of tin by hydride generation flow injection atomic absorption techniques, 308 (1995) 339

Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for the determination of zinc by flame atomic absorption spectrometry, 309 (1995) 395

Multielemental trace analysis of biological materials using double focusing inductively coupled plasma mass spectrometry detection, 400 (1999) 307

Determination of zinc in biological materials by sequential metal vapor elution analysis with atomic absorption detection, 329 (1996) 191

#### **Biological matrices**

Supercritical fluid extraction of priority organotin contaminants from biological matrices, 355 (1997) 269

# Biological media

Determination of components in biological media by ion chromatography with series bulk acoustic wave detection, 378 (1999) 95

#### **Biological monitoring**

Use of immunoassays for biomonitoring of herbicide metabolites in urine, 376 (1998) 119

Development and validation of an ELISA for metolachlor mercapturate in urine, 399 (1999) 109

### Biological oxygen demand

Rapid estimation of biochemical oxygen demand using a microbial multi-staged bioreactor, 313 (1995) 221

# **Biological samples**

Selective stopped-flow determination of manganese with luminol in the absence of hydrogen peroxide, 302 (1995) 275

Studies on the reaction between cadmium and potassium tetrahydroborate in aqueous solution and its application in atomic fluorescence spectrometry, 310 (1995) 377

Determination of butyltin compounds in marine biological samples by enzymatic hydrolysis and HG-GC-QFAAS detection, 327 (1996) 287

Arsenic speciation in biological samples by on-line high performance liquid chromatography-microwave digestion-hydride generation-atomic absorption spectrometry, 334 (1996) 261

Polyurethane foam as a sorbent for continuous flow analysis: Preconcentration and spectrophotometric determination of zinc in biological materials, 366 (1998) 263

Fiber optic pH/Ca<sup>2+</sup> fluorescence microsensor based on spectral processing of sensing signals, 397 (1999) 93

# Bioluminescence

Interaction of long-chain choline derivatives with firefly luciferase and their use as reagents for the extraction of intracellular ATP from microorganisms, 303 (1995) 85

Indirect bioluminescent determination of europium(III) using flow injection analysis and on-line reduction, 339 (1997) 225

A transient enzymatic inhibition as an efficient tool for the discriminating bioluminescent analysis of three adenylic nucleotides with a fiberoptic sensor based on a compartmentalized tri-enzymatic sensing layer, 360 (1998) 89

Simultaneous assay of pepsinogen I and pepsinogen II in serum by bioluminescent enzyme immunoassay using two kinds of *Luciola* lateralis luciferase, 395 (1999) 265

#### Bioluminescent enzyme immunoassay (BL-EIA)

Bioluminescent enzyme immunoassay using thermostable mutant luciferase and acetate kinase as a labelled enzyme, 361 (1998) 19

Bioluminescent enzyme immunoassay for pituitary adenylate cyclase activating polypeptide 38 (PACAP38), 382 (1999) 245

Simultaneous assay of pepsinogen I and pepsinogen II in serum by bioluminescent enzyme immunoassay using two kinds of *Luciola* lateralis luciferase, 395 (1999) 265

#### **Biomarkers**

Application of immunological methods for the determination of environmental pollutants in human biomonitoring. A review, 311 (1995) 383

Biomarkers of toluene diisocyanate and thermal degradation products of polyurethane, with special reference to the sample preparation, 333 (1996) 277

#### **Biomaterials**

Microwave-accelerated speciation analysis for butylin compounds in sediments and biomaterials by large volume injection capillary gas chromatography quartz furnace atomic absorption spectrometry, 332 (1996) 225

### Biomonitoring

Mammalian cells as biomonitors of UV-exposure, 387 (1999) 281

#### Biopharmaceutical analysis

Diode laser induced near infra-red fluorescence detection for highperformance liquid chromatography analysis of indocyanine green in plasma, 342 (1997) 145

#### Rioprobes

Development and demonstration of an immobilised-polyphenol oxidase bioprobe for the detection of phenolic pollutants in water, 389 (1999) 161

#### Bioprocess

Bioanalytics: detailed insight into bioprocesses, 400 (1999) 121

### **Bioprocess monitoring**

The automation of immun-FIA-systems, 313 (1995) 55 Flow-injection immunoassay using OPA derivatization, 374 (

Flow-injection immunoassay using OPA derivatization, 374 (1998) 177

# Bioprocess monitoring and control

Gas sensitive field-effect transistors: applications to the monitoring of biotechnological processes, 373 (1998) 253

# **Bioreactor fermentation**

Sequential enzymatic monitoring of glucose, ethanol and glutamate in bioreactor fermentation broth containing a high salt concentration by a multi-channel flow-injection analysis method, 308 (1995) 145

# **Bioreactor monitoring**

Membrane introduction mass spectrometry, 350 (1997) 257

#### Rioreactors

On-line monitoring with feedback control of bioreactors using a high ethanol tolerance yeast by membrane introduction mass spectrometry, 316 (1995) 269

Continuous-flow/stopped-flow system incorporating a rotating bioreactor for the determination of penicillins in pharmaceutical products, 396 (1999) 143

#### Biosensing

Room temperature phosphorescence flow-through biosensing of anionic surfactants, 371 (1998) 73

#### Biosensors

Aldose dehydrogenase-modified carbon paste electrodes as amperometric aldose sensors, 302 (1995) 233

Properties of carbon fibre microelectrodes as a basis for enzyme biosensors, 303 (1995) 275

Long-term response of an integrated carbon paste based glucose biosensor, 303 (1995) 285

Development of a bio-thermochip and its application for the detection of glucose in urine, 303 (1995) 295

A reagentless, disposable biosensor for lactic acid based on a screenprinted carbon electrode containing Meldola's Blue and coated with lactate dehydrogenase, NAD\* and cellulose acetate, 304 (1995) 17

Determination of p-aminophenol and catecholamines at picomolar concentrations based on recycling enzyme amplification, 304 (1995) 25

Glucose sensor based on carbon paste electrode incorporating poly(ethylene glycol)-modified glucose oxidase and various mediators, 304 (1995) 33

Highly selective biosensing of lactate at lactate oxidase containing rhodium-dispersed carbon paste electrodes, 304 (1995) 41

Evaluation of amperometric glucose biosensors based on co-immobilisation of glucose oxidase with an osmium redox polymer in electrochemically generated polyphenol films, 304 (1995) 127

Highly sensitive quartz crystal immunosensors for multisample detection of herbicides, 304 (1995) 139

Internal enzyme fiber-optic biosensors for hydrogen peroxide and glucose, 304 (1995) 147

Amperometric glucose biosensor manufactured by a printing technique, 304 (1995) 157

A disposable amperometric immunosensor for 2,4-dichlorophenoxyacetic acid, 304 (1995) 361

Remarkably selective metallized-carbon amperometric biosensors, 305 (1995) 3

Effects of different additives on a tyrosinase based carbon paste electrode, 305 (1995) 8

A glucose sensor, interference free for ascorbic acid, 305 (1995) 18 Enzymatic sensor coupled to a flow-injection analysis system for the determination of salicylate, 305 (1995) 26

New enzyme sensor for sulfite analysis in sea and river water samples, 305 (1995) 32

Hybrid tissue/enzyme biosensor for pectin, 306 (1995) 123

β-Cyclodextrin cation exchange polymer membrane for improved second-generation glucose biosensors, 306 (1995) 201

Reagentless enzyme-based sensor using a gas-permeable membrane for determination of alcohols, 306 (1995) 209

Generalized model for enzyme amperometric biosensors, 307 (1995) 27

Clinical analysis of urea in human blood by coupling a surface acoustic wave sensor with urease extracted from pumpkin seeds, 307 (1995) 61

Self-assembled monolayers and enzyme electrodes: progress, problems and prospects, 307 (1995) 277

Optimization of amperometric microsensors for monitoring choline in the extracellular fluid of brain tissue, 307 (1995) 291

New fluorescence tools for investigating enzyme activity, 307 (1995) 393

Amperometric flow-through biosensor for the determination of pesticides, 308 (1995) 129

Flow-injection analysis of phenols at a graphite electrode modified with co-immobilised laccase and tyrosinase, 308 (1995) 137

A piezoelectric immunosensor for hepatitis viruses, 309 (1995) 19

A reagentless amperometric biosensor for hydrogen peroxide determination based on asparagus tissue and ferrocene mediation, 309 (1995) 35

A novel enzyme sensor for the determination of inorganic phosphate, 309 (1995) 47

Flow injection amperometric determination of glucose and some other low molecular weight saccharides based on oligosaccharide dehydrogenase mediated by benzoquinone systems, 310 (1995) 161

Investigation of a novel chronopotentiometric detection method using a redox mediator modified carbon electrode, 310 (1995)

Simultaneous determination of follicle stimulating hormone and luteinising hormone using a multianalyte immunosensor, 310 (1995) 251

A regenerable pseudo-reagentless glucose biosensor based on Nafion polymer and 1,1'-dimethylferricinium mediator, 310 (1995) 419

Amperometric biosensors based on the immobilization of oxidases in a Prussian blue film by electrochemical codeposition, 310 (1995) 429

Thin film bienzyme amperometric biosensors based on polymeric redox mediators with electrostatic bipolar protecting layer, 311 (1995) 15

Development of amperometric biosensors based on the immobilization of enzymes in polymer films electrogenerated from a series of amphiphilic pyrrole derivatives, 311 (1995) 23

The development of a peroxidase biosensor for monitoring phenol and related aromatic compounds, 311 (1995) 245

A biosensor as warning device for the detection of cyanide, chlorophenols, atrazine and carbamate pesticides, 311 (1995) 255

Validation of an enzymatic biosensor with various liquid chromatographic techniques for determining organophosphorus pesticides and carbaryl in freeze-dried waters, 311 (1995) 265

Evaluation of the use of free and immobilised acetylcholinesterase for paraoxon detection with an amperometric choline oxidase based biosensor, 311 (1995) 273

- Development of an optical flow-through biosensor for the determination of sulphite in environmental samples, 311 (1995) 281
- A direct optical immunosensor for atrazine detection, 311 (1995) 289
- New immunoassay techniques using Nafion-modified electrodes and cationic redox labels or enzyme labels, 311 (1995) 301
- Improved liposome immunomigration strip assay for alachlor determination, 311 (1995) 309
- Validation of two immunoassay methods for environmental monitoring of carbaryl and 1-naphthol in ground water samples, 311 (1995) 319
- Validation of commercially available ELISA microtiter plates for triazines in water samples, 311 (1995) 331
- Development of immunoassays for the analysis of chlorpyrifos and its major metabolite 3,5,6-trichloro-2-pyridinol in the aquatic environment, 311 (1995) 341
- Determination of atrazine and alachlor in natural waters by a rapidmagnetic particle-based ELISA Influence of common crossreactants: deethylatrazine, deisopropylatrazine, simazine and metolachlor, 311 (1995) 357
- Determination of Procymidone in vegetables by a commercial competitive inhibition enzyme immunoassay, 311 (1995) 371
- Environmental analysis in the workplace; development of airborne monitoring systems for potentially harmful pharmaceuticals: an improved rapid ELISA for ceftazidime, 311 (1995) 377
- Immunochemical techniques: antibody production for pesticide analysis. A review, 311 (1995) 393
- Water quality control in the production of drinking water from river water. The application of immunological techniques for the detection of chlorophenoxy acid herbicides (2,4-D), 311 (1995) 407
- Application of radioimmunoassay in the screening of polychlorinated biphenyls in cow's milk, 311 (1995) 415
- Extension of the bioautograph technique for multiresidue determination of fungicide residues in plants and water, 311 (1995)
- Entrapment of chloroplasts and thylakoids in polyvinylalcohol-SbQ.

  Optimization of membrane preparation and storage conditions,
  311 (1995) 437
- Remote electrochemical biosensor for field monitoring of phenolic compounds, 312 (1995) 39
- Transcutaneous lactate monitoring based on a micro-planar amperometric biosensor, 312 (1995) 323
- Development of a needle-type biosensor for intravascular glucose monitoring, 313 (1995) 45
- A novel microbial sensor for the determination of cyanide, 313 (1995) 69
- Rapid estimation of biochemical oxygen demand using a microbial multi-staged bioreactor, 313 (1995) 221
- Advances in amperometric enzyme electrodes in reversed micelles, 315 (1995) 93
- Development of an extremely flexible automatic analyzer with integrated biosensors for on-line control of fermentation processes, 315 (1995) 113
- Direct and simultaneous determination of uric acid and glucose in serum with electrochemical filter/biosensor flow-injection analysis system, 315 (1995) 137

- Enzyme biosensors for urea determination based on an ionophore free pH membrane electrode, 315 (1995) 289
- Plant tissue-based fiber-optic pyruvate sensor, 316 (1995) 57
- A multichannel immunochemical sensor for determination of 2,4dichlorophenoxyacetic acid, 316 (1995) 73
- Plant tissue electrode for the determination of atrazine, 316 (1995) 79
  Environmental analysis in the workplace; development of a rapid,
  sensitive ELISA for monitoring airborne alcalase, 316 (1995)
- Development of biosensors based on an electrolyte isolator semiconductor (EIS)-capacitor structure and their application for process monitoring Part I. Development of the biosensors and their characterization, 317 (1995) 259
- Improvement of the analytical characteristics of an enzyme electrode for free and total cholesterol via laponite clay additives, 317 (1995) 275
- Amperometric determination of cholesterol in serum with use of a renewable surface peroxidase electrode, 318 (1995) 89
- Cyro-hydrogel for the construction of a tyrosinase-based biosensor, 319 (1996) 71
- A bienzyme modified carbon paste electrode for the amperometric detection of L-lactate at low potentials, 319 (1996) 79
- Biosensors for analysis of ethanol in food: effect of the pasting liquid, 319 (1996) 91
- Determination of microorganisms with a quartz crystal microbalance sensor, 319 (1996) 97
- Fibre optic biosensor for the determination of D-glucose based on absorption changes of immobilized glucose oxidase, 319 (1996)
- Poly(amphiphilic pyrrole)-tyrosinase-peroxidase electrode for amplified flow injection-amperometric detection of phenol, 319 (1996) 145
- Kinetics and performance of a mediated biosensor for hypoxanthine using deflavo xanthine oxidase, 319 (1996) 325
- Microfabricated amperometric creatine and creatinine biosensors, 319 (1996) 335
- Direct evaluation of meat spoilage and the progress of aging using biosensors, 320 (1996) 269
- Penicillin enzyme biosensors based on pH membrane electrodes, 321 (1996) 27
- Conductometric urea sensor. Use of additional membranes for the improvement of its analytical characteristics, 321 (1996) 35
- Development of a mass-producible glucose biosensor and flowinjection analysis system suitable for on-line monitoring during fermentations, 321 (1996) 165
- Glucose-sensitive ion-sensitive field-effect transistor-based biosensor with additional positively charged membrane Dynamic range extension and reduction of buffer concentration influence on the sensor response, 322 (1996) 77
- Parameters which influence the optimal immobilisation of oxidase type enzymes on methacrylate copolymers as demonstrated for amperometric biosensors, 323 (1996) 87
- Polypyrrole-based amperometric flow injection biosensor for urea, 323 (1996) 107
- A long-term stable penicillin-sensitive potentiometric biosensor with enzyme immobilized by heterobifunctional cross-linking, 323 (1996) 115

Automated determination of lactulose in milk using an enzyme reactor and flow analysis with integrated dialysis, 324 (1996) 37

Evaluation of detection and sample clean-up techniques for on- and off-line fermentation monitoring systems, 324 (1996) 103

Multivariate evaluation of inhibition studies on an enzyme electrodes system with pesticides and mixtures of mercury and pesticides, 325 (1996) 1

Hydrogel matrix for three enzyme entrapment in creatine/creatinine amperometric biosensing, 325 (1996) 161

Stripping potentiometric transduction of DNA hybridization processes, 326 (1996) 141

Properties of poly-β-aminoanthraquinone modified carbon fiber electrode as a basis for hemoglobin biosensors, 327 (1996) 125

Fabrication and application of a diamond-film glucose biosensor based on a H<sub>2</sub>O<sub>2</sub> microarray electrode, 327 (1996) 133

Alcohol biosensors based on coupled oxidase-peroxidase systems, 327 (1996) 223

Electrochemical detection of NADH and dopamine in flow analysis based on tetraruthenated porphyrin modified electrodes, 329 (1996) 91

A disposable reagentless screen-printed amperometric biosensor for the measurement of alcohol in beverages, 329 (1996) 215

In situ biochemical reduction of interference in an amperometric biosensor with a novel heterobilayer configuration of polypyrrole/glucose oxidase/horseradish peroxidase, 329 (1996) 223

Amperometric glyceride biosensor, 330 (1996) 159

Electron transfer between cellobiose dehydrogenase and graphite electrodes, 331 (1996) 207

Correlation between the electrical charge properties of polymeric membranes and the characteristics of ion field effect transistors

membranes and the characteristics of ion field effect transistors or penicillinase based enzymatic field effect transistors, 331 (1996) 217

Whole cell amperometric biosensor based on Aspergillus niger for determination of glucose with enhanced upper linearity limit, 331 (1996) 225

Biosensoring of hydrogen peroxide using new methylene blue N incorporated in a montmorillonite-modified horseradish peroxidase immobilization matrix as an electron shuttle, 332 (1996) 73

Aerosol-generated sol-gel-derived thin films as biosensing platforms, 332 (1996) 83

Hydrogen peroxide amperometric biosensor based on a peroxidasegraphite-epoxy biocomposite, 332 (1996) 131

Accumulation and trace measurements of phenothiazine drugs at DNA-modified electrodes, 332 (1996) 139

Bienzymatic potentiometric electrodes for creatine and L-arginine determination, 333 (1996) 215

Diffusion restricting outer membranes for greatly extended linearity measurements with glucose oxidase enzyme electrodes, 333 (1996) 223

Immunoenzymatic application of a redox potential biosensor, 335 (1996) 127

Electrochemical characteristics of a carbon-based thick-film ι-lactate biosensor using ι-lactate dehydrogenase, 336 (1996) 57

Acid phosphatase/glucose oxidase-based biosensors for the determination of pesticides, 336 (1996) 67

Determination of L-asparagine using flow-injection systems with spectrophotometric and potentiometric detection, 336 (1996) 113 Sequence-specific electrochemical biosensing of M. tuberculosis DNA, 337 (1997) 41

Sensing neuroactive agents in Hawaiian plants, 337 (1997) 297

Determination of organophosphorus and carbamate pesticides using a biosensor based on a polishable, 7,7,8,8-tetracyanoquinodimethane-modified, graphite-epoxy biocomposite, 337 (1997) 305

Determination of anticholinesterase pesticides in real samples using a disposable biosensor, 337 (1997) 315

Determination of simazine in water samples by waveguide surface plasmon resonance, 338 (1997) 109

Ferrocenyl silicon-based dendrimers as mediators in amperometric biosensors, 338 (1997) 191

Amperometric selective biosensing of dimetyyl- and diethyldithiocarbamates based on inhibition processes in a medium of reversed micelles, 340 (1997) 89

Glucose oxidase/hexokinase electrode for the determination of ATP, 340 (1997) 109

Reusable ethanol sensor based on a NAD\*-dependent dehydrogenase without coenzyme addition, 340 (1997) 143

Development of an amperometric immunosensor based on flow injection analysis for the detection of red blood cells, 340 (1997) 175

Pulsed-amperometric detection of urea in blood samples on a conducting polypyrrole-urease biosensor, 341 (1997) 155

Studies on a potentiometric urea biosensor based on an ammonia electrode and urease, immobilized on a γ-aluminum oxide matrix, 341 (1997) 161

Detection of point mutation in the p53 gene using a peptide nucleic acid biosensor, 344 (1997) 111

A redox-label immunosensor on basis of a bi-enzyme electrode, 344

Reagentless amperometric biosensors highly sensitive to hydrogen peroxide, glucose and lactose based on N-methyl phenazine methosulfate incorporated in a Nafion film as an electron transfer mediator between horseradish peroxidase and an electrode, 344 (1997) 187

Covalent immobilization of single-stranded DNA onto optical fibers using various linkers, 344 (1997) 201

Genosensor technology and the detection of interfacial nucleic acid chemistry, 346 (1997) 259

Design and development of a miniaturised total chemical analysis system for on-line lactate and glucose monitoring in biological samples, 346 (1997) 341

DNA electrochemical biosensors for environmental monitoring. A review, 347 (1997) 1

A strategy for the broad range detection of compounds with affinity for nucleic acids, 347 (1997) 79

Development of an automated controlled-pore glass flow-through immunosensor for carbaryl, 347 (1997) 199

Monitoring proteolytic enzymes for health and safety in the manufacturing environment. A review, 347 (1997) 235

Determination of flavanols in beers with tissue biosensors, 347 (1997) 281

Computational neural networks for the evaluation of biosensor FIA measurements, 348 (1997) 135

Physical study of film-forming acrylate emulsion polymers for biosensor applications, 349 (1997) 131 Hybrid biosensors to estimate lactose in milk, 349 (1997) 153

Fibre-optic genosensor for specific determination of femtomolar DNA oligomers, 350 (1997) 51

Electrochemical investigation of transduction of interactions of aflatoxin M<sub>1</sub> with bilayer lipid membranes (BLMs), 350 (1997) 121

Continuous measurement of lactate in microdialysate, 351 (1997) 127

A flow-injection (FI) mediated biosensor for on-line monitoring of lactate in mammalian cell culture, 351 (1997) 159

Coconut-based plant tissue reactor for biosensing of catechol in flow injection analysis, 354 (1997) 325

Amperometric biosensors for L-alanine and pyruvate assays in biological fluids, 355 (1997) 235

Mediator type of glucose microbial biosensor based on Aspergillus niger, 356 (1997) 217

Highly sensitive electrochemical determination of Escherichia coli density using tyrosinase-based chemically amplified biosensor, 357 (1997) 51

Poly(o-phenylenediamine) ultra-thin polymer-film composite membranes for enzyme electrodes, 357 (1997) 55

Ellipsometric determination of the structure of surface-stabilized bilayer lipid membranes on silver metal, 357 (1997) 73

The development of a non-competitive immunoenzymometric assay of cocaine, 358 (1998) 5

Carbon felt composite electrodes and their use in electrochemical sensing: a biosensor based on alcohol dehydrogenase, 358 (1998)

Preparation and optimization of superoxide microbiosensor, 358 (1998) 27

Amperometric biosensor sensitive to glucose and lactose based on co-immobilization of ferrocene, glucose oxidase, β-galactosidase and mutarotase in β-cyclodextrin polymer, 358 (1998) 137

Ascorbic acid determination with an ion-sensitive field effect transistor-based peroxidase biosensor, 359 (1998) 143

Low-potential stable detection of β-NADH at sol-gel derived carbon composite electrodes, 360 (1998) 171

Development of an oxidase-based glucose sensor using thicknessshear-mode quartz crystals, 363 (1998) 203

Whole-cell biosensor for determination of volatile organic compounds in the form of aerosols, 364 (1998) 153

Development of ornithine biosensor and application to estimation of prawn freshness, 364 (1998) 159

Optimization of an inorganic/bio-organic matrix for the development of new glucose biosensor membranes, 364 (1998) 165

Monitor of antibodies in human saliva using a piezoelectric quartz crystal biosensor, 365 (1998) 147

Simultaneous monitoring of glucose and L-lactic acid during a fermentation process in an aqueous two-phase system by online FIA with microdialysis sampling and dual biosensor detection, 366 (1998) 127

Application of reversible immobilization techniques for biosensors, 368 (1998) 197

Characterisation and analytical use of a polypyrrole electrode containing anti-human serum albumin, 371 (1998) 39

Amperometric peroxide sensor based on horseradish peroxidase and toluidine blue *O*-acrylamide polymer in carbon paste, 373 (1998) 241

Determination of choline-containing phospholipids in serum with a fiber-optic biosensor, 374 (1998) 19

A new method based on gelation of tachypleus amebocyte lysate for detection of *Escherichia coliform* using a series piezoelectric quartz crystal sensor, 374 (1998) 47

Indicator-free electrochemical DNA hybridization biosensor, 375 (1998) 197

Biosensor for the estimation of low biochemical oxygen demand, 379 (1999) 185

Biosensors for L-malate and L-lactate based on solid binding matrix, 379 (1999) 193

Slow ultrafiltration for continuous in vivo sampling: application for glucose and lactate in man, 379 (1999) 327

Dual electrode signal-subtracted biosensor for simultaneous flow injection determination of sucrose and glucose, 380 (1999) 7

Zeolite-modified electrodes in electroanalytical chemistry, 384 (1999) 1

Potentiometric biosensor for L-ascorbic acid based on ascorbate oxidase of natural source immobilized on ethylene-vinylacetate membrane, 385 (1999) 3

Glucose oxidase electrodes via reconstitution of the apo-enzyme: tailoring of novel glucose biosensors, 385 (1999) 45

Micromachined biosensor terminals for the study of growing neurons, 385 (1999) 73

Multi-enzymatic electrochemical sensor: field measurements and their optimisation, 385 (1999) 461

A reagentless amperometric biosensor based on the coimmobilization of horseradish peroxidase and methylene green in a modified zeolite matrix, 386 (1999) 31

Whole cell- and protein-based biosensors for the detection of bioavailable heavy metals in environmental samples, 387 (1999) 235

Microscale application of the SOS-LUX-TEST as biosensor for genotoxic agents, 387 (1999) 289

Improved stability and altered selectivity of tyrosinase based graphite electrodes for detection of phenolic compounds, 387 (1999)

Functionalized inorganic-organic composite material derivated by sol-gel for construction of mediated amperometric hydrogen peroxide biosensor, 388 (1999) 71

An enzyme based biosensor for the direct determination of diisopropyl fluorophosphate, 389 (1999) 189

β-Lactamase label-based potentiometric biosensor for α-2 interferon detection, 390 (1999) 73

Determination of breath alcohol using a differential-type amperometric biosensor based on alcohol dehydrogenase, 390 (1999) 83

Hydrogen peroxide - sensitive enzyme sensor based on phthalocyanine thin film, 391 (1999) 289

Optimization of capacitive affinity sensors: drift suppression and signal amplification, 392 (1999) 77

Development of highly sensitive BOD sensor and its evaluation using preozonation, 394 (1999) 65

Immobilisation of enzyme throughout a polytyramine matrix: a versatile procedure for fabricating biosensors, 394 (1999) 211

Glucose microsensors based on carbon paste enzyme electrodes modified with cupric hexacyanoferrate, 395 (1999) 11

Evaluating the quality of oligonucleotides that are immobilized on glass supports for biosensor development, 395 (1999) 273

Zucchini crude extract-palladium-modified carbon paste electrode for the determination of hydroquinone in photographic developers, 398 (1999) 145

Multi-analyte explosive detection using a fiber optic biosensor, 399 (1999) 13

Sol-gel materials for electrochemical biosensors, 399 (1999) 21 Considerations for the quantitative transduction of hybridization of immobilized DNA, 400 (1999) 73

Direct electron transfer between heme-containing enzymes and electrodes as basis for third generation biosensors, 400 (1999) 91

Development of an electrochemical flow injection immunoassay (FIIA) for the real-time monitoring of biospecific interactions, 400 (1999) 109

Bioanalytics: detailed insight into bioprocesses, 400 (1999) 121

### Biotechnology

Rapid and quantitative analysis of metabolites in fermentor broths using pyrolysis mass spectrometry with supervised learning: application to the screening of Penicillium chrysogenum fermentations for the overproduction of penicillins, 313 (1995) 25

Application of reversible immobilization techniques for biosensors, 368 (1998) 197

Bioanalytics: detailed insight into bioprocesses, 400 (1999) 121

#### **Bio-thermochip**

Development of a bio-thermochip and its application for the detection of glucose in urine, 303 (1995) 295

#### Biotin

Biotinylated and streptavidinylated liposomes as labels in cytokine immunoassays, 306 (1995) 333

Development of an "electrically wired" amperometric immunosensor for the determination of biotin based on a non-diffusional redox osmium polymer film containing an antibody to the enzyme label horseradish peroxidase, 345 (1997) 59

Selective purification of synthetic proteins by the use of FMOC- and biotin-based reversible chromatographic probes, 352 (1997) 375

#### **Biotinidase**

Isoelectric focusing of biotinidase and lipoamidase with the addition of non-ionic detergent, 372 (1998) 281

# Biotin-labeled oligonucleotide

Amplified electronic transduction of oligonucleotide interactions: novel routes for Tay-Sachs biosensors, 385 (1999) 33

#### Bipolar electrodes

Simplex optimization of reaction variables in the production of cobalt(III) acetate in a bipolar packed-bed reactor, 335 (1996) 35

# Bipotentiostatic technique

Detection of uric acid with a new type of conducting polymer-based enzymatic sensor by bipotentiostatic technique, 385 (1999) 187

# 2,2'-Bipyridyl

Effect of model organic compounds on square-wave voltammetric stripping analysis at the Nafion/chelating agent mercury film electrodes. 310 (1995) 407

#### Birch trees

Detection of effects of ozone on birch, Betula pendula Roth., by chemometrical evaluation of concentrations of lipid components in leaves, 304 (1995) 209

#### Riede

A new technique to measure bird's dietary exposure to pesticides, 399 (1999) 173

#### Bis(acetylacetone)ethylenediimine

Spectrophotometric determination of copper after extraction of its chelate with bis(acetylacetone)ethylenediimine, 329 (1996) 315

Flow injection extraction spectrophotometric determination of copper using bis(acetylacetone)ethylenediimine, 331 (1996) 253

#### Bis(2-chloroethyl)sulfide

Fluorescein mercury(II) acetate and sodium fluorescein as reagents for the determination of bis(2-chloroethyl)sulfide by fluorescence quenching, 387 (1999) 207

### Bis(cyclohexanone)oxalyldihydrazone

Flow-injection spectrophotometric determination of copper using bis(cyclohexanone) oxalyldihydrazone, 304 (1995) 97

#### Bisegmented flow system

Bisegmented flow system for determination of low concentrations of gaseous constituents in gaseous samples, 393 (1999) 121

#### Bismuth

Applications of a slotted tube atom trap and flame atomic absorption spectrometry: determination of bismuth in copper-based alloys with and without hydride generation, 311 (1995) 93

The spectrophotometric determination of bismuth after extraction of protriptylinium tetraiodobismuthate(III), 334 (1996) 209

Spectrophotometric determination of bismuth in pharmaceutical samples by extraction of the tetraiodobismuthate(III) anion into propylene carbonate, 337 (1997) 113

Substituted catechols as complexing agents for the determination of bismuth, lead, copper and cadmium by adsorptive stripping voltammetry, 344 (1997) 87

Measurement of bismuth at pg g<sup>-1</sup> concentrations in snow and ice samples by thermal ionisation mass spectrometry, 347 (1997) 351

Determination of Hg and Bi by electrothermal vaporization inductively coupled plasma mass spectrometry using vapor generation with in situ preconcentration in a platinum-coated graphite furnace, 353 (1997) 173

Determination of bismuth in cod muscle, lake and river sediment by flow injection on-line sorption preconcentration in a knotted reactor coupled with electrothermal atomic absorption spectrometry, 354 (1997) 7

Spectrophotometric determination of bismuth after extraction of benzyltributylammonium tetraiodobismuthate(III), 355 (1997) 167

- Reduction of chloride ion interference in chemical oxygen demand (COD) determinations using bismuth-based adsorbents, 357 (1997) 167
- Determination of arsenic, antimony, selenium, tellurium and bismuth in nickel metal by hydride generation atomic fluorescence spectrometry, 371 (1998) 109
- A differential pulse polarographic study of bismuth<sup>III</sup> complexes with macrocyclic ligands 1,4,7,10-tetraazacyclododecane and 1,4,7,10-tetrakis (2-hydroxypropyl)-1,4,7,10-tetraazacyclododecane. An out-of-cell determination of stability constants of polarographically active and inactive bismuth complexes at fixed ligand to metal ratio and various pH values, 372 (1998) 323
- Determination of bismuth in environmental samples with Mg-W cell-electrothermal atomic absorption spectrometry, 379 (1999) 169
- Synthesis and analytical application of 2,6-dichloroarsenazo as a new chromogenic reagent for bismuth, 380 (1999) 101

# Bismuth active substances

Application of an indirect tensammetric method for the determination of non-ionic surfactants in surface water, 305 (1995) 256

#### Bismuth(III)

Square-wave voltammetric stripping analysis of bismuth(III) at a poly(4-vinylpyridine)/mercury film electrode, 320 (1996) 43

#### Bismuthol I

Sorption and preconcentration of metal ions on silica gel modified with 2,5-dimercapto-1,3,4-thiadiazole, 327 (1996) 183

#### Bispectral

Introduction to measurement of color of fluorescent materials, 380 (1999) 183

# Bispectral matrix

Standards for the measurement of diffuse reflectance – an overview of available materials and measurement laboratories, 380 (1999) 379

# Bisphenol A (BPA)

Determination of bisphenol A (BPA) in water by gas chromatography-mass spectrometry, 346 (1997) 87

# Black-box testing

Design and use of reference data sets for testing scientific software, 380 (1999) 339

#### Blank bias error

Evaluation and elimination of the blank bias error using the H-point standard additions method (HPSAM) in the simultaneous spectrophotometric determination of two analytes, 348 (1997) 39

# Bleached kraft mill effluents

Detection and elimination of the constant error component and the interactive matrix interference in the determination of adsorbable organic halogen (AOX) in bleached kraft paper pulp mill effluents, 333 (1996) 139

# Bleaching

Determination of peracid and putative enzymatic peracid formation by an easy colorimetric assay, 378 (1999) 293

# Blend homogeneity

Effective mass sampled by NIR fiber-optic reflectance probes in blending processes, 348 (1997) 303

#### β-blocker

On-line electrogenerated Ru(bpy)<sub>3</sub><sup>3+</sup> chemiluminescent detection of β-blockers separated with capillary electrophoresis, 347 (1997) 289

#### Blood

- Determination of chromium and nickel in human blood by means of inductively coupled plasma mass spectrometry, 306 (1995) 35
- Clinical analysis of urea in human blood by coupling a surface acoustic wave sensor with urease extracted from pumpkin seeds, 307 (1995) 61
- Properties of poly-β-aminoanthraquinone modified carbon fiber electrode as a basis for hemoglobin biosensors, 327 (1996) 125
- Determination of copper, lead and cadmium in whole blood by stripping voltammetry with the use of graphite electrodes, 330 (1996) 175
- The determination of lead in whole blood by laser enhanced ionization using a combination of electrothermal vaporizer and flame, 333 (1996) 187
- Direct vapor generation Fourier transform infrared spectrometric determination of ethanol in blood, 336 (1996) 123
- Whole blood glucose determination using glucose oxidase immobilized on cotton cheese cloth, 338 (1997) 135
- Capillary zone electrophoresis with end-column amperometric detection for the determination of glutathione at a gold/mercury amalgam microelectrode without deoxygenation, 343 (1997) 231
- Surfactant-modified poly(vinyl chloride) membranes as biocompatible interfaces for amperometric enzyme electrodes, 350 (1997)
- Electrothermal atomization laser-excited atomic fluorescence spectrometry for direct analysis of germanium in water and blood samples, 350 (1997) 231
- Blood compatibility and extended linearity of lactate enzyme electrode using poly(vinyl chloride) outer membranes, 353 (1997) 281
- Amperometric biosensors for L-alanine and pyruvate assays in biological fluids, 355 (1997) 235
- Novel instrumentation for determination of ethanol concentrations in human perspiration by gas chromatography and a good interrelationship between ethanol concentrations in sweat and blood, 365 (1998) 259
- Rapid determination of lead and cadmium in biological fluids by electrothermal atomic absorption spectrometry using Zeeman correction, 390 (1999) 207

# Blood ammonia determination

A novel bulk acoustic wave sensor for dissolved ammonia, 325 (1996) 65

#### **Blood** analysis

- Ion-selective electrode for procainamide determination in blood serum, 312 (1995) 35
- Determination of cholinesterase in blood serum using a benzoateselective membrane electrode made with heptyl-4-trifluoroacetylbenzoate neutral carrier, 321 (1996) 21

Determination of free disopyramide in blood serum in situ using a disopyramide-sensitive membrane electrode, 343 (1997) 79

The study of magnesium speciation in serum by liquid chromatography and graphite furnace atomic absorption techniques, 358 (1998) 185

### Blood chemistry analyzer

Modeling and optimization studies for a sequential flow based bioanalytical system, 359 (1998) 157

#### Blood glucose analysis

Glucose determination in blood samples using flow injection analysis and an amperometric biosensor based on glucose oxidase immobilized on hexacyanoferrate modified nickel electrode, 350 (1997) 91

# **Blood** group typing

Blood group typing by electrophoresis based on isoelectric focusing, 383 (1999) 157

# Blood plasma

Pulsed-amperometric detection of urea in blood samples on a conducting polypyrrole-urease biosensor, 341 (1997) 155

Combination of flow injection with capillary electrophoresis. Part 5. Automated preconcentration and determination of pseudoephedrine in human plasma, 394 (1999) 13

#### Rlood serum

Flow-injection chemiluminometric determination of ascorbic acid based on its sensitized photooxidation, 308 (1995) 299

Analytical characterisation and application of a p-benzoquinone mediated amperometric graphite sensor with covalently linked glucoseoxidase, 315 (1995) 101

# Blood-brain barrier

Recovery as a function of the osmolality of the perfusion medium in microdialysis experiments, 375 (1998) 135

Recovery as a function of the osmolality of the perfusion medium in microdialysis experiments, 379 (1999) 319

# Blood-gas monitoring

Potentiometric oxygen sensor based on mixed potential of cobalt wire electrode, 341 (1997) 187

# **Blotting**

Procedures leading to primary structure determination of proteins in complex mixtures by gel electrophoresis and modern microscale analyses, 372 (1998) 21

Applications of gel electrophoresis in the determination of proteinlow  $M_{\tau}$  substances and protein-protein interactions, 372 (1998)

#### Blue-green algae

Development of a bioanalytical phosphatase inhibition test for the monitoring of microcystins in environmental water samples, 394 (1999) 243

### Blue-green algae toxins

Potential of immunoextraction coupled to analytical and bioanalytical methods (liquid chromatography, ELISA kit and phosphatase inhibition test) for an improved environmental monitoring of cyanobacterial toxins, 399 (1999) 75

#### **Blue-Nature PAGE**

Electrophoresis of hydrophobic proteins, 383 (1999) 101

#### BMACD

Design and construction of a flow system for determination of Cu(II) ions in water by means of a chemically modified carbon paste electrode, 335 (1996) 275

#### ROD

Biosensor for the estimation of low biochemical oxygen demand, 379 (1999) 185

#### **BOD** sensor

Biosensor for the estimation of low biochemical oxygen demand, 379 (1999) 185

Development of highly sensitive BOD sensor and its evaluation using preozonation, 394 (1999) 65

#### Boiler feed and natural waters

Solid-phase spectrophotometric determination of trace amounts of hydrazine at sub-ng ml<sup>-1</sup> level, 353 (1997) 115

#### **Boiling point**

Effect of solvent properties on the dispersion coefficient in an online microwave flow-injection system, 314 (1995) 213

# Bonded metal-ion complex compounds

Silica chemically modified with N-benzoyl-N-phenylhydroxylamine in chemisorption of hydrogen and metal ions, 379 (1999) 11

# Boron

Study of the enhancement of the boron-beryllon III system by anion surfactant using oscillopolarography, 309 (1995) 63

Study of the chelation of boron with Azomethine H by differential pulse polarography, liquid chromatography and capillary electrophoresis and its analytical applications, 317 (1995) 295

Voltammetric determination of boron in plasma using Beryllon(III) as a ligand, 318 (1996) 303

Modifications to the azomethine-H method for determining boron in water, 346 (1997) 373

Determination of ultratrace amounts of boron in high purity alcohols by inductively coupled plasma-mass spectrometry with hydrofluoric acid/potassium fluoride treatment, 368 (1998)

#### **Boron determination**

Multicommutation in flow analysis exploiting a multizone trapping approach: spectrophotometric determination of boron in plants, 374 (1998) 53

# Roron(III)

Photometric determination of boron in potassium dihydrogenphosphate by the reaction of boron-containing macrobicyclic iron(II) nioximate formation, 395 (1999) 213

# **Botanical samples**

Simultaneous determination of aluminium and beryllium at the subnanogram per millilitre level by solid-phase derivative spectrophotometry, 327 (1996) 73

### **Bovine liver**

Constant current cathodic stripping potentiometric determination of arsenic on a mercury film electrode in the presence of copper ions, 381 (1999) 207

# **Bovine** pituitary

Analytical and preparative capillary zone electrophoresis of opioid peptides, 383 (1999) 79

# Bovine serum albumin

Correlation between the electrical charge properties of polymeric membranes and the characteristics of ion field effect transistors or penicillinase based enzymatic field effect transistors, 331 (1996) 217

Determination of bovine serum albumin by capillary zone electrophoresis with end-column amperometric detection at the carbon fiber microdisk array electrode, 342 (1997) 67

Determination of p-aminobenzoic acid in the presence of bovine serum albumin by room-temperature phosphorimetry on a poly(vinyl alcohol) substrate, 367 (1998) 33

Synthesis and characterisation of 8-hydroxyquinoline-bovine serum albumin conjugates as metal ion chelating proteins, 378 (1999) 225

# Bovine serum albumin column

Microcolumn ion chromatography of inorganic UV-absorbing anions using bovine serum albumin as stationary phases, 335 (1996) 261

# Brackish water

Determination of sulfate in brackish waters by laser Raman spectroscopy, 344 (1997) 153

Simultaneous determination of orthophosphate and silicate in brackish water, 378 (1999) 183

#### Brain

Methods and issues in microdialysis calibration, 379 (1999) 337

# Brain tissue

On-line interface between microdialysis and capillary zone electrophoresis, 307 (1995) 217

Optimization of amperometric microsensors for monitoring choline in the extracellular fluid of brain tissue, 307 (1995) 291

### Branched chain amino acids

Chemiluminometric branched chain amino acids determination with immobilized enzymes by flow-injection analysis, 375 (1998) 65

### Branched polyethylenimine (B-PEI)

Amperometric glucose sensors based on ferrocene-containing Bpolyethylenimine and immobilized glucose oxidase, 353 (1997) 37

# **Breaking force**

Prediction of physical properties of fabrics using DRIFT spectroscopy and thermal analysis, 332 (1996) 105

# Breakthrough and elution tests

Adsorptive separation of some metal ions by complexing agent types of chemically modified chitosan, 388 (1999) 209

#### Breakthrough volume

Mathematical procedure for the determination of the breakthrough volumes of polycyclic aromatic hydrocarbons (PAHs), 346 (1997) 253

### Breast

Gel electrophoresis for studying biological function, 372 (1998) 33

#### Breath alcohol (ethanol)

Determination of breath alcohol using a differential-type amperometric biosensor based on alcohol dehydrogenase, 390 (1999) 83

#### Brewster cell

Forward-scattering degenerate four-wave mixing as a potential laser-based absorption detection method in liquid separation systems: Coupling to conventional-size liquid chromatography, 330 (1996) 189

#### Brij 30

Determination of polychlorinated biphenyls by liquid chromatography following cloud-point extraction, 358 (1998) 145

# Brij-35

Enhancement effect of Brij-35 on the hemin-catalyzed fluorogenic reaction between hydrogen peroxide and N,N'-dicyanomethyl-ophenylenediamine, 369 (1998) 205

# Brij 97

Determination of polychlorinated biphenyls by liquid chromatography following cloud-point extraction, 358 (1998) 145

### Broad range

A strategy for the broad range detection of compounds with affinity for nucleic acids, 347 (1997) 79

### **Broad-band** excitation

Notched broad-band excitation of ions in a bench-top ion trap mass spectrometer, 303 (1995) 149

### Broccoli

On-line analysis of sample atmospheres using membrane inlet mass spectrometry as a method of monitoring vegetable respiration rate, 394 (1999) 43

# **Bromadiolone**

Kinetic determination of bromadiolone based on lanthanide-sensitized luminescence, 355 (1997) 145

# Bromate

Spectrophotometric determination of bromate ions using phenothiazines, 313 (1995) 121

High selective determination of bromate in ozonized water by using ion chromatography with postcolumn derivatization equipped with reagent preparation device, 346 (1997) 299

Determination of bromate at parts-per-trillion levels by gas chromatography-mass spectrometry with negative chemical ionization, 377 (1998) 53

#### Bromide

Spectrophotometric determination of trace bromide by its catalytic effect on the tetrabase-chloramine T reaction, 319 (1996) 199 Direct determination of bromide ions in sea water by ion chromatography using water as the mobile phase, 322 (1996) 43

#### **Bromination**

Kinetics of the electrochemical bromination of some unsaturated fatty acids by the rotating ring-disc electrode technique, 376 (1998) 357

# Bromocresol green

Determination of sulphite in wines by gas-diffusion flow injection analysis utilizing spectrophotometric pH-detection, 337 (1997) 125

# Bromofenoxim

Batch square-wave voltammetric and flow-injection amperometric determination of trace amounts of bromofenoxim, 310 (1995) 153

### 2-(5-Bromo-2-pyridylazo)-5-diethylaminophenol

Simultaneous determination of zirconium and hafnium as ternary complexes with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol and fluoride by reversed-phase liquid chromatography, 361 (1998) 177

Third derivative spectrophotometric determination of trace rhodium after pre-concentration with 2-(5-bromo-2-pyridylazo)-5-diethy-laminophenol chelate/tetraphenylborate ion pair on microcrystal-line naphthalene, 382 (1999) 339

# 2-(5'-Bromo-2'-pyridylazo)-5-diethylaminophenol (PADAP)

UV-visible spectrophotometric, adsorptive stripping voltammetric and capillary electrophoretic study of 2-(5'-bromo-2'-pyridylazo)-5-diethylaminophenol and its chelates with selected metal ions: application to the determination of Co(III) in vitamin B<sub>12</sub>, 323 (1996) 97

### Bromopyrogallol red

Bromopyrogallol red enhanced resonance light-scattering spectroscopic determination of DNA with 5,10,15,20-tetrakis[4-(trimethylammoniumyl) phenyl]porphine, 379 (1999) 45

Study and analytical application of bromopyrogallol red as a hydrogen donor substrate for peroxidase, 379 (1999) 63

# **Bromothymol blue**

Flow-through fiber-optic ammonia sensor for analysis of hippocampus slice perfusates, 357 (1997) 79

# **Bronze artefacts**

Statistical evaluation of data obtained by inductively coupled plasma atomic emission spectrometry (ICP-AES) for archaeological copper ingots, 389 (1999) 141

#### 5-Br-PADAP

Determination of trace amounts of manganese by β-cyclodextrin polymer solid phase spectrophotometry using 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol, 392 (1999) 247

#### **B-Soline**

Spline wavelet analysis for voltammetric signals, 340 (1997) 115

#### **Buffer additives**

Surface deactivation in protein and peptide analysis by capillary electrophoresis, 383 (1999) 1

### **Buffer** capacity

Glucose-sensitive ion-sensitive field-effect transistor-based biosensor with additional positively charged membrane Dynamic range extension and reduction of buffer concentration influence on the sensor response, 322 (1996) 77

#### Buffers

Factor analysis applied to correlation between acidity constants of series of diuretics, quinolones and buffers, with solvatochromic parameters in water-acetonitrile mixtures, 347 (1997) 385

Steady state voltammetry in the process of hydrogen evolution in buffer solutions, 361 (1998) 141

#### **Bulk acoustic wave**

Determination of components in biological media by ion chromatography with series bulk acoustic wave detection, 378 (1999) 95

#### Bulk acoustic wave sensor

A novel gas-diffusion/flow-injection system coupled with a bulk acoustic wave impedance sensor for total inorganic carbonate and its application to determination of total inorganic and total organic carbon in waters, 349 (1997) 143

### **Bulk-modified electrodes**

Nickel oxide dispersed in a graphite / poly(vinyl chloride) composite matrix for an electrocatalytic amperometric sensor of alditols in flow-injection analysis, 307 (1995) 43

Development of a carbon composite electrode made from polyethylene and graphite powder modified with copper(I) oxide, 326 (1996) 107

#### Butter

Automatic determination of liposoluble vitamins in butter and margarine using Triton X-100 aqueous micellar solution by liquid chromatography with electrochemical detection, 315 (1995) 201

#### **Butyl** xanthate

Determination of Cu(II) and Ni(II) as chelates with butyl xanthate by liquid chromatography with electrochemical and spectrophotometric detection, 311 (1995) 225

# **Butylated hydroxyanisole**

Simultaneous kinetic determination of butylated hydroxyanisole and propyl gallate by coupling stopped-flow mixing technique and diode-array detection, 354 (1997) 173

Artificial neural networks and multivariate calibration for spectrophotometric differential kinetic determinations of food antioxidants, 396 (1999) 221

### **Butylated hydroxytoluene**

Artificial neural networks and multivariate calibration for spectrophotometric differential kinetic determinations of food antioxidants, 396 (1999) 221

# **Butyltin compounds**

Determination of butyltin compounds in marine biological samples by enzymatic hydrolysis and HG-GC-QFAAS detection, 327 (1996) 287

#### **Butyltin speciation**

Microwave-accelerated speciation analysis for butylin compounds in sediments and biomaterials by large volume injection capillary gas chromatography quartz furnace atomic absorption spectrometry, 332 (1996) 225

#### **Butyltin species**

Supercritical fluid extraction of butyltin compounds from sediment, 304 (1995) 85

#### Butyltins

Evaluation of derivatization techniques for the analysis of organotin compounds in biological tissue, 338 (1997) 51

# C

# 14C

Classical versus multivariate calibration for a beta emitter (14C) activity determination by liquid scintillation counting, 331 (1996) 33

#### C4 column

Intelligent peptide-mapping method for recombinant human tissuetype plasminogen activator by lysyl-endopeptidase digestion, 365 (1998) 241

### C<sub>18</sub> modified silica

Determination of the pesticide Naptalam, at the ppb level, by FIA with fluorimetric detection and on-line preconcentration by solid-phase extraction on C<sub>18</sub> modified silica, 384 (1999) 185

# C18 silica gel

An optosensor for riboflavin with C<sub>18</sub> silica gel as a substrate, 339 (1997) 161

#### Ca

Assessment of a screening method for metals in seawater based on the non-selective reagent 4-(2-pyridylazo)resorcinol (PAR), 371 (1998) 227

# Ca and Mg in mineral waters

Sequential injection system in flame atomic absorption spectrometry for the determination of calcium and magnesium in mineral waters, 358 (1998) 111

# Ca/Mg-resinates

Application of IR spectroscopy and multivariate calibration to monitor the fusion synthesis of Ca- and Ca/Mg-resinates, 391 (1999) 269

#### Cadmium

In-flow speciation of copper, zinc, lead and cadmium in fresh waters by square wave anodic stripping voltammetry Part II. Optimization of measurement step, 305 (1995) 183

Determination of cadmium in foodstuffs and plant materials by flow injection-spectrophotometry including ion exchange, 306 (1995) 343

Two-phase liqui-liquid extraction in monosegmented flow analysis.

Determination of cadmium with 1-(2'-pyridylazo) naphthol, 308
(1995) 231

Determination of cadmium in fertilizers by flow-injection spectrophotometry, 308 (1995) 439

Voltammetry of Pb(II), Cd(II) and Zn(II) ions in the presence of the sulphated polysaccharide λ-carrageenan, 310 (1995) 121

Simultaneous multielement determination in complex matrices using frequency-modulated electrothermal atomic absorption spectrometry, 310 (1995) 181

Inductively coupled plasma atomic emission spectrometric determination of cadmium in biological and environmental materials using electrothermal vaporization after in situ alkylation, 310 (1995) 369

Studies on the reaction between cadmium and potassium tetrahydroborate in aqueous solution and its application in atomic fluorescence spectrometry, 310 (1995) 377

Determination of trace metals (Cd, Pb) in fish by electrothermal atomic absorption spectrometry after microwave digestion, 311 (1995) 135

Cu<sup>2+</sup>- and Cd<sup>2+</sup>-buffers in water-ethanol media, 315 (1995) 55

Rapid determination of copper, lead and cadmium in unpurged seawater by adsorptive stripping voltammetry, 320 (1996) 19

Anodic stripping voltammetry of trace metals by batch injection analysis, 322 (1996) 151

Flow injection spectrophotometric determination of ng ml<sup>-1</sup> levels of cobalt(II) using the photochemical decomposition of a cadmium(II)-water-soluble porphyrin complex, 323 (1996) 63

Slurry sampling for the determination of lead, cadmium and thallium in soils and sediments by electrothermal atomic absorption spectrometry with fast-heating programs, 328 (1996) 19

Mathematical modelling of potentiometric stripping analysis in mechanically mixed solutions, 329 (1996) 1

Determination of copper, lead and cadmium in whole blood by stripping voltammetry with the use of graphite electrodes, 330 (1996) 175

Determination of lead and cadmium in human hair by atomic absorption spectrometric procedures after solid phase extraction, 337 (1997) 329

Simultaneous flow injection analysis of cadmium and lead with differential pulse voltammetric detection, 340 (1997) 149

Pyrocatechol Violet immobilized Amberlite XAD-2: synthesis and metal-ion uptake properties suitable for analytical applications, 340 (1997) 285

Substituted catechols as complexing agents for the determination of bismuth, lead, copper and cadmium by adsorptive stripping voltammetry, 344 (1997) 87

- Complex formation of 2-(5-nitro-2-pyridylazo)-5-(N-propyl-N-sulfo-propylamino)phenol with lead, cadmium and manganese for their sensitive spectrophotometric detection in flow injection and ion chromatography systems, 345 (1997) 139
- Disposable thick film modified graphite electrodes for stripping voltammetry, 349 (1997) 85
- Rapid and simultaneous analysis of trace metals (Cu, Pb and Cd) in seawater by potentiometric stripping analysis, 351 (1997) 83
- Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165
- Flow injection on-line coprecipitation-preconcentration system using copper(II) diethyldithiocarbamate as carrier for flame atomic absorption spectrometric determination of cadmium, lead and nickel in environmental samples, 353 (1997) 181
- Speciation of Cu, Pb, Cd and Hg in waters of the Oporto coast in Portugal, using pre-concentration in a Chelamine resin column, 353 (1997) 189
- On-line preconcentration of lead and cadmium for flame atomic absorption spectrometry using a flow-through electrochemical microcell, 357 (1997) 133
- Determination of Cu, Zn, Cd and Pb in fish samples by slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry, 359 (1998) 205
- Evaluation of cadmium-metallothionein stability constants based on voltammetric measurements, 360 (1998) 189
- Potentiometric flow injection determination of cadmium in waste waters including in-line ion-exchange separation/concentration, 366 (1998) 155
- On-line separation and preconcentration of cadmium, lead and nickel in a fullerene (C<sub>60</sub>) minicolumn coupled to flow injection tungsten coil atomic absorption spectrometry, 368 (1998) 255
- Potentiometric titration of poly(acrylic acid) in mixed counterion systems: Chemical binding of Cd ions, 369 (1998) 109
- Isoform separation of metallothioneins by capillary zone electrophoresis with Tris-tricine buffer in the presence or absence of methanol, 372 (1998) 231
- Determination of cadmium in seawater using automated on-line preconcentration and direct injection graphite furnace atomic absorption spectrometry, 377 (1998) 255
- Application of Doehlert optimization and factorial designs in developing and validating a solid-phase spectrophotometric determination of trace levels of cadmium, 382 (1999) 117
- Anodic stripping voltammetry of lead and cadmium using a mercury film electrode and thiocyanate, 385 (1999) 273
- Complexes of Zn(II) and Cd(II) with 4-(2-pyridylazo)resorcinol sorbed on sephadex QAE: characterization and theoretical study, 389 (1999) 281
- Complexation of cadmium by the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: study by differential pulse polarography and circular dichroism spectroscopy with multivariate curve resolution analysis, 390 (1999) 15
- Rapid determination of lead and cadmium in biological fluids by electrothermal atomic absorption spectrometry using Zeeman correction, 390 (1999) 207

- The determination of cadmium and six other heavy metals in nitrate/ phosphate fertilizer solution by ion chromatography, 391 (1999) 35
- Direct determination of cadmium in solid biological materials by slurry sampling electrothermal atomic absorption spectrometry with polytetrafluoroethylene as a chemical modifier, 391 (1999) 89
- 1,10-Phenanthroline as a complexing agent for on-line sorbent extraction/preconcentration for flow injection-flame atomic absorption spectrometry, 392 (1999) 283
- Evaluation of n-substituted aminosulfonic acid pH buffers with a morpholinic ring for cadmium and lead speciation studies by electroanalytical techniques, 394 (1999) 325
- A fluorescence polarization immunoassay for cadmium(II), 399 (1999) 161

### Cadmium ion-selective electrode

Flow-injection potentiometric determination of free cadmium ions with a cadmium ion-selective electrode, 370 (1998) 267

#### Cadmium propanoate

Evolving polynomial regression and error analysis in model identification and determination of consecutive stability constants using voltammetric methods, 325 (1996) 135

### Cadmium propanoate complexes

Application of multivariate curve resolution to the voltammetric data Factor analysis ambiguities in the study of weak consecutive complexation of metal ion with ligand, 341 (1997) 105

# Cadmium sensor

Cadmium(II)-selective sensors based on dibenzo-24-crown-8 in PVC matrix, 389 (1999) 205

# Cadmium stearate

Scanning tunneling microscopic observations of commensurate crystalline structures for horizontally deposited cadmium stearate bilayers on graphite, 307 (1995) 377

#### Caesium

- The determination of caesium and silver in soil and fungal fruiting bodies by electrothermal atomic absorption spectrometry, 327 (1996) 53
- Performance characteristics for the measurement of Cs and Sr by diffusive gradients in thin films (DGT), 368 (1998) 243
- Poly(vinyl) chloride membrane caesium-selective electrodes based on doubly crowned 1,3-calix[4]arenes, 371 (1998) 155

#### CAFCA

On-line monitoring of galactoside conjugates and glycerol by flow injection analysis, 373 (1998) 57

#### Caffeine

- A rapid procedure for the determination of caffeine, theophylline and theobromine in urine by micellar liquid chromatography and direct sample injection, 304 (1995) 195
- Simultaneous determination of caffeine and acetaminophen in drug formulations by square-wave voltammetry using a chemically modified electrode, 342 (1997) 175

Physical stimuli and emotional stress-induced sweat secretions in the human palm and forehead, 365 (1998) 319

Simultaneous determination of caffeine, theobromine and theophylline in foods and pharmaceutical preparations by using ion chromatography, 371 (1998) 287

Recovery as a function of the osmolality of the perfusion medium in microdialysis experiments, 375 (1998) 135

Recovery as a function of the osmolality of the perfusion medium in microdialysis experiments, 379 (1999) 319

Extraction of methylxanthines from human body fluids by solidphase microextraction, 387 (1999) 53

# Cakes

Electrochemical study of the flavour enhancer maltol. Determination in foods by liquid chromatography with amperometric detection, 327 (1996) 65

#### Calcareous soil

A study of the analytical parameters important for the sequential extraction procedure using microwave heating for Pb, Zn and Cu in calcareous soils, 369 (1998) 235

#### Calcium

Three pressurized mineralization procedures that permit subsequent flame atomic spectrometric determination of Ca, Fe, K, Mg and Zn in bovine blood plasma-containing cookies and in standard reference materials, 306 (1995) 139

Spectrophotometric determination of calcium in paper machine white water by sequential injection analysis, 308 (1995) 286

Determination of sodium, potassium, calcium and magnesium cations by capillary electrophoresis compared with ion chromatography, 314 (1995) 67

Determination of calcium in water, urine and pharmaceutical samples by sequential injection analysis, 323 (1996) 75

Determination of ultratrace metallic impurities in fluorocarbon polymers by electrothermal atomic absorption spectrometry after decomposition with a combustion system, 336 (1996) 151

Usefulness of a ruggedness test in the validation of flow injection analysis systems, 355 (1997) 195

Flow-injection analysis wit potentiometric detection, or the speciation of fluoride and calcium, 366 (1998) 23

Novel sensors for potassium, calcium and magnesium ions based on a silicon transducer as a light-addressable potentiometric sensor, 382 (1999) 131

Fiber optic pH/Ca<sup>2+</sup> fluorescence microsensor based on spectral processing of sensing signals, 397 (1999) 93

Ion-selective optode membranes using 9-(4-diethylamino-2-octadecanoatestyryl)-acridine acidochromic dye, 398 (1999) 1

### Calcium acamprosate

Capillary electrophoresis for the determination of bromide, chloride and sulfate as impurities in calcium acamprosate, 381 (1999) 29

# Calcium ions

Polysiloxane based CHEMFETs for selective detection of Ca<sup>2+</sup> ions, 357 (1997) 225

# Calcium mobilization

Simultaneous analysis of membrane potential and calcium mobilization in a pancreatic β-cell line MIN6 by use of a double-probe imaging microscope-system, 365 (1998) 3

# Calcium sulphide

Potentiometric determination of sulphur in solid samples with a sulphide selective electrode, 380 (1999) 39

# Calcium-binding

Estimation of calcium-binding constants of casein phosphopeptides by capillary zone electrophoresis, 372 (1998) 291

### Calculation of the interference of Sc-47 to Au-199

Platinum determination by instrumental neutron activation analysis with special reference to the spectral interference of Sc-47 on the platinum indicator nuclide Au-199, 360 (1998) 243

#### Calf thymus DNA

Spectrophotometry of nucleic acids by their effect on the complex of cobalt(II) with 4-[(5-chloro-2-pyridyl)azo]-1,3-diaminobenzene, 345 (1997) 235

Determination of nucleic acids at nanogram levels with safranine T by a resonance light-scattering technique, 375 (1998) 89

Bromopyrogallol red enhanced resonance light-scattering spectroscopic determination of DNA with 5,10,15,20-tetrakis[4-(trimethylammoniumyl) phenyl]porphine, 379 (1999) 45

#### Calibrate

A convenient calibrant for silicon determination, 339 (1997) 297

### Calibration

Automatic implementation of the method of standard additions in unsegmented flow systems, 308 (1995) 77

Use of submicroliter-volume samples for extending the dynamic range of flow-injection flame atomic absorption spectrometry, 308 (1995) 85

Evaluation of multicomponent flow-injection analysis data by use of a partial least squares calibration method, 310 (1995) 53

Sources of experimental variation in calibration curves for enzymelinked immunosorbent assay, 313 (1995) 197

Comparison of recovery and delivery in vitro for calibration of microdialysis probes, 316 (1995) 403

Evaluation of a flow injection system combined with an inductively coupled plasma mass spectrometer with thermospray nebulization for the determination of trace levels of platinum, 320 (1996)

Automatic calibration in continuous flow analysis, 327 (1996) 83 Calibration of an array of voltammetric microelectrodes, 334 (1996)

A comparison of various calibration techniques applied to the ninhydrin-cefoxitin determination, 334 (1996) 199

A convenient calibrant for silicon determination, 339 (1997) 297 Controlling uncertainty in calibration, 348 (1997) 61

Multivariate experimental methodology applied to the calibration of a Clark type oxygen sensor, 355 (1997) 43

Analysis of silicon nitride bearings with laser ablation inductively coupled plasma mass spectrometry, 355 (1997) 113

- Calibration procedure for flow injection flame atomic absorption spectrometry with interferents as spectrochemical buffers, 367 (1998) 101
- A low power ultra violet spectrophotometer for measurement of nitrate in seawater: introduction, calibration and initial sea trials, 377 (1998) 167
- Methods and issues in microdialysis calibration, 379 (1999) 337
- Instrumentation, standards, and procedures used at the National Research Council of Canada for high-accuracy fluorescence measurements, 380 (1999) 193
- Calibration methods for microdialysis sampling in vivo: muscle and adipose tissue, 400 (1999) 143

### Calibration curves

- Asymmetric distribution of results in calibration curve and standard addition evaluations, 357 (1997) 157
- Decomplexation of aluminium-fluoride complexes by citrate-based buffers as a function of pH, aluminium and fluoride concentrations, 368 (1998) 265

# Calibration matrix

Spectrophotometric determination of Allura Red (R40) in soft drink powders using the universal calibration matrix for partial least squares multivariate method, 330 (1996) 19

# Calibration methods

Comparison of multivariate methods based on latent vectors and methods based on wavelength selection for the analysis of nearinfrared spectroscopic data, 304 (1995) 285

# Calibration models

- Modelling near infrared instrument differences by chemometric methods: testing for near infrared forage analysis, 355 (1997) 181
- A simplified calibration model of spectral data for quantitative analyses with different Raman spectrometers, 379 (1999) 159

# Calibration plots

Assessment of linearity between steady-state limiting current and analytical concentration of weak acids in the reaction of hydrogen evolution, 331 (1996) 117

#### Calibration standard

Quantitative in situ microanalysis of minor and trace elements in biogenic calcite using infrared laser ablation – inductively coupled plasma mass spectrometry: a critical evaluation, 378 (1999) 261

# Calibration transfer

- Multivariate calibration transfer applied to the routine polarographic determination of copper, lead, cadmium and zinc, 348 (1997) 51
- On mass spectrometer instrument standardization and interlaboratory calibration transfer using neural networks, 348 (1997) 511
- Calibration transfer from a scanning near-IR spectrophotometer to a FT-near-IR spectrophotometer, 349 (1997) 263
- Applications of maximum likelihood principal component analysis: incomplete data sets and calibration transfer, 350 (1997) 341
- Calibration transfer as a data reconstruction problem, 384 (1999)

#### Calixarene ketone

Selective extraction of silver(I) over palladium(II) with ketonic derivatives of calixarenes from highly concentrated nitric acid, 341 (1997) 275

#### Calixarenes

- Sodium-selective electrodes based on triester monoacid derivatives of p-tert-butylcalix[4]arene. Comparison with tetraester calix[4]arene ionophores, 336 (1996) 1
- Membranes containing new large size calixarenes on semiconductor substrates for chemical microsensors, 354 (1997) 283
- Use of calix[4]arene to separate positional isomers in capillary electrophoresis, 358 (1998) 263
- Synthesis and spectroscopic properties of new luminol-linked calixarene derivatives, 362 (1998) 121
- Optosensing of cationic surfactants based on host-guest chemistry, 370 (1998) 259

# Calix[4]arene

- Polysiloxane based CHEMFETs for selective detection of Ca<sup>2+</sup> ions, 357 (1997) 225
- Ion-selective optode membranes using 9-(4-diethylamino-2-octadecanoatestyryl)-acridine acidochromic dye, 398 (1999) 1

# Calix[4]arene tetracarboxylic acid

Stepwise extraction of two lead ions with a single molecule of calix[4]arene tetracarboxylic acid, 387 (1999) 61

# Calix[4]arene-crown-6

Cesium-selective chemically modified field effect transistors with calix[4]arene-crown-6 derivatives, 310 (1995) 263

### Calix[4]-bis-crowns

Poly(vinyl) chloride membrane caesium-selective electrodes based on doubly crowned 1,3-calix[4]arenes, 371 (1998) 155

# Calorimetry

Determination of stability constants using genetic algorithms, 316 (1995) 347

# **CAMPATH 1H**

Determination of carbohydrate heterogeneity in the humanised antibody CAMPATH 1H by liquid chromatography and matrix-assisted laser desorption ionisation mass spectrometry, 306 (1995) 43

#### Cancer patients

Determination of free N-acetyl neuraminic acid by ultrafiltration and liquid chromatography in the serum of normal and cancer patients, 306 (1995) 65

### Candida antarctica lipase B

Monitoring of enzyme catalysed reactions by Fourier transform Raman spectrometry, 370 (1998) 191

# Canned fruit juices

Determination of tin in canned fruit juices by stripping potentiometry, 333 (1996) 115

#### Canonical variate analysis

Classification of pyrolysis mass spectra by fuzzy multivariate rule induction-comparison with regression, K-nearest neighbour, neural and decision-tree methods, 348 (1997) 389

#### Capacitance measurements

Whole cell- and protein-based biosensors for the detection of bioavailable heavy metals in environmental samples, 387 (1999) 235

# Capacitive sensor

Optimization of capacitive affinity sensors: drift suppression and signal amplification, 392 (1999) 77

#### Capacity factor

Effect of pressure-induced ionization, partitioning, and complexation on solute retention in reversed-phase liquid chromatography, 397 (1999) 163

# Capillary

CCD-camera based capillary chemiluminescent detection of retinol binding protein, 387 (1999) 21

# Capillary batch injection

Capillary batch injection analysis: a novel approach for analyzing nanoliter samples, 362 (1998) 213

#### Capillary chromatography

A simple and sensitive method for the determination of volatile halogenated organic compounds in sea water in the amol I<sup>-1</sup> to pmol I<sup>-1</sup> range, 357 (1997) 197

# Capillary coating

High molecular weight polyarginine as a capillary coating for separation of cationic proteins by capillary electrophoresis, 307 (1995) 193

### Capillary column

Metallomesogens as stationary phases for the separation of phenols by gas chromatography, 384 (1999) 51

# Capillary electrophoresis

Analysis of trace level peptides using capillary electrophoresis with UV laser-induced fluorescence, 307 (1995) 163

An affordable high-performance optical absorbance detector for capillary systems, 342 (1997) 123

Combination of flow injection with capillary electrophoresis. Part I. The basic system, 346 (1997) 135

On-line electrogenerated Ru(bpy)<sub>3</sub><sup>3+</sup> chemiluminescent detection of β-blockers separated with capillary electrophoresis, 347 (1997) 289

Amperometric detection of enzymes in capillary zone electrophoresis based on dynamic modification with surfactants, 349 (1997)

A study of the effects of injection mode, on-capillary stacking and off-line concentration on the capillary electrophoresis limits of detection for four structural types of industrial dyes, 349 (1997) 221

Combination of flow injection with capillary electrophoresis. Part 2.
Chiral separation of intermediate enantiomers in chloramphenicol synthesis, 353 (1997) 199

Potentiometric detection in capillary electrophoresis with a metallic copper electrode, 354 (1997) 129

Combination of flow injection with capillary electrophoresis. Part 3.

On-line sorption column preconcentration capillary electrophoresis system, 355 (1997) 135

Application of capillary electrophoresis for the determination of dissolved gases in water samples. I. Determination of dissolved oxygen, 356 (1997) 1

Chiral separation of several naphthalenesulfonylamino acids by capillary zone electrophoresis with selectively methylated cyclodextrin derivatives, 357 (1997) 177

Separation of thorium, uranium and rare-earth elements with 2-[(2-arsenophenyl)-azo]-1,8-dihydroxy-7-[(2,4,6-tribromophenyl)azo]-naphthalene-3,6-disulfonic acid by capillary electrophoresis, 358 (1998) 157

Use of calix[4]arene to separate positional isomers in capillary electrophoresis, 358 (1998) 263

Determination of *trans*-resveratrol and other polyphenols in wines by a continuous flow sample clean-up system followed by capillary electrophoresis separation, 359 (1998) 27

Study on the chiral separation of basic drugs by capillary zone electrophoresis using  $\beta$ -CD and derivatized  $\beta$ -CDs as chiral selectors, 359 (1998) 39

Application of crown ethers as modifiers for the separation of amines by capillary electrophoresis, 360 (1998) 69

Ultraviolet laser-induced fluorescence detection strategies in capillary electrophoresis: determination of naphthalene sulphonates in river water, 360 (1998) 109

On-line indirect chemiluminescence detection in capillary electrophoresis, 363 (1998) 157

Capillary electrophoretic separation of several transition-metal ions as their complexes with 1,10-phenanthroline derivatives and its application to the determination of copper in duralmin alloys, 364 (1998) 75

Separation and determination of cyclodextrins by capillary electrophoresis with amperometric detection, 369 (1998) 39

Determination of trace metal ions by capillary electrophoresis with fluorescence detection based on post-column complexation with 8-hydroxyquinoline-5-sulphonic acid, 371 (1998) 269

Isoelectric focusing of proteins and peptides in gel slabs and in capillaries, 372 (1998) 1

Separation of soluble glycoproteins from sugarcane juice by capillary electrophoresis, 372 (1998) 201

Ultraviolet detector response of glycine and alanine homopeptides: Some specific features in capillary electrophoresis, 372 (1998) 257

Micellar electrokinetic chromatography of highly hydrophobic peptides, 372 (1998) 273

Chiral separation of several amino acid derivatives by capillary zone electrophoresis with selectively acetylated β-cyclodextrin derivatives, 373 (1998) 47

Synthesis of enantiomeric selective α<sub>1</sub>-acid glycoprotein (AGP)bonded capillary and its application in capillary electrophoresis, 373 (1998) 207

New electrolyte system for the determination of ammonium, alkali and alkaline earth cations by capillary electrophoresis, 374 (1998) 159

- Determination of creatine kinase activity and phosphocreatine in off-line and on-line modes with capillary electrophoresis, 375 (1998) 233
- Characterization of acid-base and complexation properties of cellulose degradation products using capillary electrophoresis, 375 (1998) 243
- Combination of flow injection with capillary electrophoresis. Part 4.

  Automated multicomponent monitoring of drug dissolution, 376
  (1998) 209
- Flow injection analysis-capillary electrophoresis system with hydrodynamic injection, 378 (1999) 55
- On-line coupling of in vivo microdialysis with capillary electrophoresis/electrochemistry, 379 (1999) 307
- Capillary electrophoresis for the determination of bromide, chloride and sulfate as impurities in calcium acamprosate, 381 (1999) 29
- Determination of monoamine transmitters and their metabolites by capillary electrophoresis with electrochemical detection, 382 (1999) 33
- Surface deactivation in protein and peptide analysis by capillary electrophoresis, 383 (1999) 1
- Affinity capillary electrophoresis of proteins and peptides, 383 (1999) 61
- Electrophoretic methods for the isolation and characterization of enzymes, 383 (1999) 109
- Recent advances in the capillary electrophoresis of recombinant glycoproteins, 383 (1999) 137
- Application of electrophoretic techniques to the diagnosis of disorders of lipoprotein metabolism. Examples at the levels of lipoproteins and apolipoproteins, 383 (1999) 169
- In situ cell for electrochemically generated Ru(bpy)<sup>3+</sup><sub>3</sub>-based chemiluminescence detection in capillary electrophoresis, 383 (1999) 213
- Application of microband array electrodes for end-column electrochemical detection in capillary electrophoresis, 385 (1999) 409
- Potentiometric detection in capillary electrophoresis with a conducting oligomer electrode, 385 (1999) 417
- Separation and determination of the active ingredients in tablets of composite sulphonamides by capillary zone electrophoresis with amperometric detection, 386 (1999) 265
- Exploring the versatility of capillary electrophoresis for the analysis of ionic species in vehicular emission, 388 (1999) 171
- Determination of small carboxylic acids by capillary electrophoresis with electrospray-mass spectrometry, 389 (1999) 1
- Determination of arsenic species by field amplified injection capillary electrophoresis after modification of the sample solution with methanol, 389 (1999) 9
- Sequential injection sample introduction microfluidic-chip based capillary electrophoresis system, 390 (1999) 27
- On-line ion-exchange preconcentration in a flow injection system coupled to capillary electrophoresis for the direct determination of UV absorbing anions, 390 (1999) 39
- Determination of nonelectroactive cations by capillary electrophoresis with amperometric detection at a graphite electrode modified with a thin film of mixed-valent ruthenium-iron cyanide, 391 (1999) 29
- Enantiomeric separation of promethazine and p.t.-α-amino-β-[4-(1,2-dihydro-2-oxo-quinoline)] propionic acid drugs by capillary

- zone electrophoresis using albumin as chiral selectors, 392 (1999) 175
- Field-portable capillary electrophoresis instrument with potentiometric and amperometric detection, 393 (1999) 77
- Combination of flow injection with capillary electrophoresis.. Part 5. Automated preconcentration and determination of pseudoephedrine in human plasma, 394 (1999) 13
- Specific separation of nickel ion with bathophenanthroline disulfonic acid by capillary zone electrophoresis, 396 (1999) 117
- Optimization of capillary electrophoresis conditions for in-capillary enzyme-catalyzed microreactions, 397 (1999) 183
- Combination of flow injection with capillary electrophoresis. Part 6.. A bias-free sample introduction system based on electroosmotic-flow traction, 398 (1999) 65
- Determination of complex formation constants for Cu(II)-Alizarin complexone with amines by capillary zone electrophoresis, 398 (1999) 75
- Demonstration of a separations-based fiberoptic sensor for bioanalysis, 399 (1999) 201
- Assaying neurotransmitters in and around single neurons with information-rich detectors, 400 (1999) 13
- Bioanalytical applications of fast capillary electrophoresis, 400 (1999) 163
- light on the next millennium, 400 (1999) 281

# Capillary flow injection

- An investigation of internal pressures in capillary flow injection systems, 358 (1998) 95
- Capillary flow injection: Performance under pressure, 366 (1998) 305
- Micro-scale determination of glucose by capillary flow injection with an immobilized enzyme reactor, 381 (1999) 165

# Capillary gas chromatography

- Extraction of methylxanthines from human body fluids by solidphase microextraction, 387 (1999) 53
- Characterization of fatty acids and triacylglycerols in vegetable oils by gas chromatography and statistical analysis, 398 (1999) 253

#### Capillary ion analysis

Selectivity optimization after prediction of the migration behaviour of anions in capillary ion analysis in the presence of micelles, 310 (1995) 27

### Capillary isoelectric focusing

Capillary isoelectric focusing with whole column detection and a membrane sample preparation system, 383 (1999) 67

### Capillary isotachophoresis

Simultaneous determination of tributyltin and triphenyltin cations by capillary isotachophoresis with potential-gradient detector for direct detection, 383 (1999) 205

# Capillary liquid chromatography

- An affordable high-performance optical absorbance detector for capillary systems, 342 (1997) 123
- An amperometric detector with a tubular electrode deposited on the capillary for capillary liquid chromatography, 360 (1998) 53

# Capillary separations

Assaying neurotransmitters in and around single neurons with information-rich detectors, 400 (1999) 13

#### Capillary tube

Micro-interferometric backscatter detection using a diode laser, 400 (1999) 265

### Capillary zone electrophoresis

Chiral separations using heparin and dextran sulfate in capillary zone electrophoresis, 307 (1995) 185

Analysis of copper corrosion inhibitors by capillary zone electrophoresis, 321 (1996) 215

Determination of polyhydroxy antibiotics by capillary zone electrophoresis with amperometric detection at a nickel electrode, 329 (1996) 49

Capillary zone electrophoresis with end-column amperometric detection for the determination of glutathione at a gold/mercury amalgam microelectrode without deoxygenation, 343 (1997) 231

Adsorption-voltammetric determination of guanine, guanosine, adenine and adenosine with capillary zone electrophoresis separation, 347 (1997) 269

Determination of cephalosporins in urine and bile by capillary zone electrophoresis, 349 (1997) 207

Simultaneous determination of iron(II) and iron(III) in water by capillary electrophoresis, 351 (1997) 41

Quantitation of metallothionein isoforms in mouse liver on capillary zone electrophoresis, 372 (1998) 241

Determination of parabens in cosmetic products by supercritical fluid extraction and capillary zone electrophoresis, 377 (1998) 85

Method development and validation for the simultaneous determination of dyes in foodstuffs by capillary zone electrophoresis, 378 (1999) 63

Separation and determination of carnitine and acyl-carnitines by capillary electrophoresis with indirect UV detection, 382 (1999) 23

Determination and separation of chloramphenicol and its hydrolysate in eye-drops by capillary zone electrophoresis with amperometric detection, 394 (1999) 309

# Capsicum annuum

Use of HPLC and multivariate methods for the evaluation of the stability of colour pigments of paprika (Capsicum annuum) powder. 372 (1998) 411

### Capsules

Investigation of sources of variance which contribute to NIR-spectroscopic measurement of pharmaceutical formulations, 345 (1997) 185

#### Captopril

Chemiluminescence determination of captopril based on a Rhodamine B sensitized cerium(IV) method, 303 (1995) 121

Determination of pharmaceutical thiols by liquid chromatography with electrochemical detection: Use of an electrode with a conductive carbon cement matrix, chemically modified with cobalt phthalocyanine, 332 (1996) 249

Chemiluminescence-based liquid chromatographic determination of hydrochlorothiazide and captopril, 386 (1999) 257

# Carbamate pesticides

Determination of organophosphorus and carbamate pesticides using a biosensor based on a polishable, 7,7,8,8-tetracyanoquinodimethane-modified, graphite-epoxy biocomposite, 337 (1997) 305

Determination of N-methylcarbamate pesticides from spiked matrices using supercritical fluid extraction, 389 (1999) 53

#### Carbamates

Chemiluminescence assays of organophosphorus and carbamate pesticides, 302 (1995) 53

Amperometric selective biosensing of dimetyyl- and diethyldithiocarbamates based on inhibition processes in a medium of reversed micelles, 340 (1997) 89

Determination of carbamate residues in crop samples by cholinesterase-based biosensors and chromatographic techniques, 362 (1998) 59

A new organic phase enzyme electrode for the analysis of organophosphorus pesticides and carbamates, 385 (1999) 59

Evaluation of a highly sensitive amperometric biosensor with low cholinesterase charge immobilized on a chemically modified carbon paste electrode for trace determination of carbamates in fruit, vegetable and water samples, 399 (1999) 37

#### Carbamazepine

Supercritical fluid chromatographic method using phenyl packed column for determination of phenobarbitone and phenytoin sodium in dosage form, 384 (1999) 143

#### Carbaryl

Indirect voltammetric determination of carbaryl and carbofuran using partial least squares calibration, 305 (1995) 219

Validation of two immunoassay methods for environmental monitoring of carbaryl and 1-naphthol in ground water samples, 311 (1995) 319

Application of a monoclonal antibody-based ELISA to the determination of carbaryl in apple and grape juices, 311 (1995) 365

Solid phase preconcentration-Fourier transform infrared spectrometric determination of carbaryl and 1-naphthol, 314 (1995) 203

Development of an automated controlled-pore glass flow-through immunosensor for carbaryl, 347 (1997) 199

Direct application of an enzyme-linked immunosorbent assay method for carbaryl determination in fruits and vegetables. Comparison with a liquid chromatography—postcolumn reaction fluorescence detection method, 387 (1999) 245

# Carbaryl determination

Environmentally friendly analytical chemistry through automation: comparative study of strategies for carbaryl determination with *p*-aminophenol, 392 (1999) 265

# Carbazole-9-acetyl chloride

New reagents for determination of amino acids by liquid chromatography with pre-column fluorescence derivatization, 367 (1998) 81

# Carbazoles

Modified β-cylclodextrins as enhancers of fluorescence emission of carbazole alkaloid derivatives, 303 (1995) 47

# Carbazole-9-yl-acetyl chloride

Fluorescence properties of carbazole-9-yl-acetyl chloride and its application for the simultaneous determination of amino acids and biogenic amines via liquid chromatography with fluorescence detection, 382 (1999) 51

### Carbazole-9-yl-propionyl chloride

New reagents for determination of amino acids by liquid chromatography with pre-column fluorescence derivatization, 367 (1998) 81

### Carbimazole

Flow-injection spectrophotometric determination of carbimazole and methimazole, 308 (1995) 457

### Carbocyanines

Fluorescent potential-sensitive dyes for use in solid state sensors for potassium ion, 334 (1996) 125

#### Carbofuran

Indirect voltammetric determination of carbaryl and carbofuran using partial least squares calibration, 305 (1995) 219

A monoclonal immunoassay for carbofuran and its application to the analysis of fruit juices, 347 (1997) 103

Evaluation of analytical methods for determining pesticides in baby food, 399 (1999) 135

#### Carbohydrate determination

PLS-NIR determination of total sugar, glucose, fructose and sucrose in aqueous solutions of fruit juices, 344 (1997) 41

### Carbohydrates

Determination of carbohydrate heterogeneity in the humanised antibody CAMPATH 1H by liquid chromatography and matrix-assisted laser desorption ionisation mass spectrometry, 306 (1995) 43

Evaluation of detection and sample clean-up techniques for on- and off-line fermentation monitoring systems, 324 (1996) 103

Copper dispersed into polyaniline films as an amperometric sensor in alkaline solutions of amino acids and polyhydric compounds, 335 (1996) 217

Development and characterization of anodically initiated luminescent detection for alcohols and carbohydrates, 337 (1997) 207

### Carbon 13

Improved detection of sugar addition to apple juices and concentrates using internal standard <sup>13</sup>C IRMS, 347 (1997) 359

# Carbon dioxide

New hydrophobic materials for optical carbon dioxide sensors based on ion pairing, 302 (1995) 249

Investigation of the response of dye-nonaqueous solvent solutions to carbon dioxide, 309 (1995) 27

The utilisation of a piezoelectric quartz crystal for measuring carbon dioxide in wine, 327 (1996) 95

Determination of CO<sub>2</sub>(g) by enhancement of luminol-cobalt(II) phthalocyanine chemiluminescence: Analysis of atmospheric air and human breath, 329 (1996) 305

Renewable electrode surfaces for monitoring CO<sub>2</sub> based on adsorptive accumulation of catalyst, 334 (1996) 309

Performance of a tetramethylammonium fluoride tetrahydrate coated piezoelectric crystal for carbon dioxide detection, 335 (1996) 235

Determination of gaseous species by monosegmented flow systems.

Volumetric determination of oxygen and carbon dioxide, 349
(1997) 377

Reverse-micelle formation: a strategy for enhancing CO<sub>2</sub>-supercritical fluid extraction of polar analytes, 358 (1998) 1

A thermistor as a sensor in gas phase flow injection analysis, 366 (1998) 5

Gas sensitive field-effect transistors: applications to the monitoring of biotechnological processes, 373 (1998) 253

Development of a novel supercritical fluid extraction procedure for lanolin extraction from raw wool, 381 (1999) 39

Microsecond lifetime-based optical carbon dioxide sensor using luminescence resonance energy transfer, 382 (1999) 67

Monitoring supercritical fluid extraction by thermal lens spectrometry with pulsed laser excitation, 390 (1999) 163

# Carbon dioxide determination

The uncertainty of carbon dioxide determination in gaseous mixtures, 318 (1996) 327

#### Carbon dioxide-based fluid

Statistical design for optimization of extraction of polyphenols from an inert matrix using carbon dioxide-based fluids, 391 (1999) 321

#### Carbon disulfide

An automated instrument for the analysis of atmospheric dimethyl sulfide and carbon disulfide, 306 (1995) 259

#### Carbon felt composite electrodes

Carbon felt composite electrodes and their use in electrochemical sensing: a biosensor based on alcohol dehydrogenase, 358 (1998) 15

# Carbon fiber electrode

[Os(bpy)<sub>2</sub>(PVI)<sub>10</sub>Cl]Cl polymer-modified carbon fiber electrodes for the electrocatalytic oxidation of NADH, 345 (1997) 51

#### Carbon fibre disk ultramicroelectrode

Optimisation of resolution function in signals ratio method and deconvolution by polynomial division – quantitation of Cd(II) and In(III) from their global signals obtained at carbon fibre disk ultramicroelectrode, 382 (1999) 105

### Carbon fibres

Properties of carbon fibre microelectrodes as a basis for enzyme biosensors, 303 (1995) 275

Stability of preplated mercury coated platinum and carbon fibre microelectrodes, 327 (1996) 211

Cathophoresis paint insulated carbon fibre ultramicro disc electrode and its application to in vivo amperometric monitoring of quantal secretion from single rat melanotrophs, 378 (1999) 135

# Carbon isotopes

Determination of the carbon-13 content of sugars and pulp from fruit juices by isotope-ratio mass spectrometry (internal reference method) A European interlaboratory comparison, 340 (1997) 21

#### Carbon modified electrode

Electrochemical response of new carbon electrodes bulk modified with cobalt phthalocyanine to some thiols in the presence of heptane or human urine, 394 (1999) 91

#### Carbon number distribution

Determination of branched carbon number distribution of polyacrylate by liquid chromatography, 357 (1997) 219

#### Carbon paste

Long-term response of an integrated carbon paste based glucose biosensor, 303 (1995) 285

Flow injection amperometric determination of glucose and some other low molecular weight saccharides based on oligosaccharide dehydrogenase mediated by benzoquinone systems, 310 (1995) 161

Alcohol biosensors based on coupled oxidase-peroxidase systems, 327 (1996) 223

Factors affecting the analytical applications of zeolite-modified electrodes Preconcentration of electroactive species, 340 (1997) 61

A bienzyme-poly-(o-phenylenediamine)-modified carbon paste electrode for the amperometric detection of ℓ-lactate, 346 (1997) 165

Mediator type of glucose microbial biosensor based on Aspergillus niger, 356 (1997) 217

Simultaneous monitoring of glucose and L-lactic acid during a fermentation process in an aqueous two-phase system by online FIA with microdialysis sampling and dual biosensor detection, 366 (1998) 127

Amperometric peroxide sensor based on horseradish peroxidase and toluidine blue *O*-acrylamide polymer in carbon paste, 373 (1998) 241

Selective monitoring of Cu<sup>(II)</sup> species using a silica modified carbon paste electrode, 385 (1999) 79

Factors affecting the analytical applications of zeolite modified electrodes: indirect detection of nonelectroactive cations, 388 (1999) 79

# Carbon paste electrodes

Aldose dehydrogenase-modified carbon paste electrodes as amperometric aldose sensors, 302 (1995) 233

Voltammetric characterisation of an insoluble tetrathiafulvalene derivative by means of modified carbon paste electrode, 336 (1996) 77

Detection of point mutation in the p53 gene using a peptide nucleic acid biosensor, 344 (1997) 111

Determination of flavanols in beers with tissue biosensors, 347 (1997) 281

The 2.5th order differential voltammetric determination of phenol with a composite carbon paste/polyamide electrode, 353 (1997)

Voltammetric detection of MoO<sup>2--</sup>4 at a modified carbon paste electrode containing chitin, 353 (1997) 301

Simultaneous homogeneous immunoassay of phenytoin and phenobarbital using a Nafion-loaded carbon paste electrode and two redox cationic labels, 356 (1997) 195

Indicator-free electrochemical DNA hybridization biosensor, 375 (1998) 197

Sorption and determination of Hg(II) on clay modified carbon paste electrodes, 385 (1999) 91

Voltammetric study of khellin at a DNA-coated carbon paste electrode, 386 (1999) 63

Improved stability and altered selectivity of tyrosinase based graphite electrodes for detection of phenolic compounds, 387 (1999)

A bienzyme modified carbon paste electrode for amperometric detection of pyruvate, 394 (1999) 233

### Carbon paste microelectrodes

Ensembles of carbon paste microelectrodes, 382 (1999) 145

### Carbon paste modified electrode

Use of a carbon paste modified electrode for the determination of 2nitrophenol in a flow system by differential pulse voltammetry, 344 (1997) 167

#### Carbon paste needle-microelectrodes

Ensembles of carbon paste microelectrodes, 382 (1999) 145

#### Carbon sorbent

Applicability of a novel carbon sorbent for the preconcentration of volatile chlorinated hydrocarbons, 309 (1995) 181

# Carbon transducers

DNA electrochemical biosensors for environmental monitoring. A review, 347 (1997) 1

#### Carbonate

Evaluation of acoustic emission as a means for carbonate determination, 309 (1995) 283

Simultaneous and automatic determination of hydroxide and carbonate in aluminate solutions by a micro-titration method, 388 (1999) 219

Europium complexes investigations in natural waters by timeresolved laser-induced fluorescence, 396 (1999) 253

### Carbonate determination

Microwave-assisted vapour-generation Fourier transform infrared spectrometric determination of carbonate in waters, 358 (1998) 235

# Carbon-based interdigitated electrode array

Electrochemical characterization of thin-film carbon interdigitated electrode arrays, 326 (1996) 155

# Carbon-ceramic composite electrodes

Low-potential stable detection of β-NADH at sol-gel derived carbon composite electrodes, 360 (1998) 171

# Carbonic anhydrase

A new rapid fluorimetric method for the determination of carbonic anhydrase, 317 (1995) 353

Quantitation of metallothionein isoforms in mouse liver on capillary zone electrophoresis, 372 (1998) 241

### Carbon-paste electrode

Sequence-specific electrochemical biosensing of M. tuberculosis DNA, 337 (1997) 41

Voltammetric response of a copper(II) complex incorporated in silica-modified carbon-paste electrode, 385 (1999) 103

# Carbon-wax electrodes

Modified carbon-wax composite electrodes, 316 (1995) 253

# Carbonyl compounds

A new fluorescent probe for sensitive detection of carbonyl compounds, 382 (1999) 253

### Carbonyl sulphide generation

Determination of thiocyanate by carbonyl sulphide (OCS) generation and gas-phase molecular absorption spectrometry, 318 (1996) 377

#### Carbonyls

Use of C<sub>18</sub> and silica-gel coated Sep-Pak cartridges for the determination of carbonyls in air by liquid chromatography, 367 (1998) 93

#### Carboxamidoximes

Protonation constants of some N-substituted thiophene-2-carboxamidoximes, 392 (1999) 343

# 4-Carboxybenzaldehyde (CBA)

Investigations on intermediate acetal formation during polarographic estimation of certain benzaldehyde derivatives, 307 (1995) 55

# β-Carboxyethylgermanium sesquioxide

Separation and determination of trace inorganic germanium in βcarboxyethylgermanium sesquioxide by filtration chromatography and hydride generation-graphite furnace atomic absorption spectrometry, 330 (1996) 53

### Carboxyl acidity

Molecular size effects on carboxyl acidity: implications for humic substances, 304 (1995) 187

# Carboxylic acid vapour

Thickness-shear-mode acoustic-wave sensor based on *n*-butylamine plasma-deposition film for detection of carboxylic acid vapours, 384 (1999) 37

# Carboxylic acids

Column liquid chromatography with diode laser-induced fluorescence detection of carboxylic acids after pre-column derivatisation, 315 (1995) 209

Simultaneous determination of inorganic anions and carboxylic acids in wine using isocratic separation on a permanently coated reversed-phase column and UV indirect detection, 321 (1996) 263

Potentiometric detection of carboxylic acids by flow injection analysis using a tungsten oxide electrode, 332 (1996) 187 Liquid chromatography of carboxylic acids using potentiometric detection with a tungsten oxide electrode, 338 (1997) 41

Optimization of the ion-exchange analysis of organic acids from fermentation, 338 (1997) 69

A study of a permanently coated polymeric column for simultaneous separation of inorganic anions and mono-carboxylic acids, 339 (1997) 231

Determination of small carboxylic acids by ion exclusion chromatography with electrospray mass spectrometry, 341 (1997)

Application of a sensitive catechol detector for determination of tyrosinase inhibitors, 362 (1998) 81

Dissociation constarts of neutral and charged acids in methyl alcohol. The acid strength resolution, 374 (1998) 309

Determination of small carboxylic acids by capillary electrophoresis with electrospray-mass spectrometry, 389 (1999) 1

Supercritical fluid extraction for selective extraction of enantiomers, 391 (1999) 253

# Carboxylic ligands protonation constants in synthetic seawater

Speciation of low molecular weight carboxylic ligands in natural fluids: protonation constants and association with major components of seawater of oxydiacetic and citric acids, 398 (1999) 103

# Carboxymethylated \( \beta\)-cyclodextrin cation exchange polymer

β-Cyclodextrin cation exchange polymer membrane for improved second-generation glucose biosensors, 306 (1995) 201

#### Carcinus maenas

Improved quantification of stress proteins by western blotting, 311 (1995) 109

#### Cardiac muscle

Gel electrophoresis for studying biological function, 372 (1998) 33

# Carnitine compounds

Separation and determination of carnitine and acyl-carnitines by capillary electrophoresis with indirect UV detection, 382 (1999) 23

# λ-Carrageenan

Voltammetry of Pb(II), Cd(II) and Zn(II) ions in the presence of the sulphated polysaccharide λ-carrageenan, 310 (1995) 121

#### Carry-over

The automatic visualisation of carry-over in high-throughput flow injection analysis mass spectrometry, 390 (1999) 175

#### Casein

Separation of a casein hydrolyzate by HPSEC with a new mobile phase and characterization of peptides by FABMS, 352 (1997) 399

#### Cassava

A fluorescence flow injection method for the quantitation of cyanide: its application to the quantitation of bound cyanide in cassava using an immobilized linamarase bioreactor, 354 (1997) 189

#### Castasterone

Synthesis of castasterone selective polymers prepared by molecular imprinting, 365 (1998) 75

#### Cat

Electrophoretic characterisation of the major cat parotid salivary protein, 372 (1998) 249

#### Catalysis

Selective determination of ultra trace concentrations of molybdenum by catalytic adsorptive stripping voltammetry, 396 (1999)

# Catalystic methods

Systematic comparison of data-processing options for kinetic-based, single-component determinations of noncatalysts: Effects of random noise, 326 (1996) 95

#### Catalyst-leachate

Simultaneous determination of vanadium(IV) and vanadium(V) as EDTA complexes by capillary zone electrophoresis, 339 (1997) 251

# Catalysts

Synergetic catalytic effect of molybdate and tungstate on the hydrogen peroxide-iodide system and its analytical applications, 303 (1995) 241

# Catalytic effect

Catalytic stripping voltammetry of vanadium in the presence of dihydroxynaphthalene and bromate, 333 (1996) 131

Reaction rate method for determination of nitrite by applying a stopped-flow technique, 376 (1998) 331

#### Catalytic methods

Interaction of long-chain choline derivatives with firefly luciferase and their use as reagents for the extraction of intracellular ATP from microorganisms, 303 (1995) 85

Nickel oxide dispersed in a graphite/poly(vinyl chloride) composite matrix for an electrocatalytic amperometric sensor of alditols in flow-injection analysis, 307 (1995) 43

Laser-induced thermal desorption with Fourier transform mass spectrometry for the time resolved analysis of catalyst and biomedical implant model surface molecular composition, 307 (1995) 321

Determination of molybdenum using polarographic catalytic current, 309 (1995) 73

Thermodynamics and kinetics of adsorption and electrocatalysis of NADH oxidation with a self-assembling quinone derivative, 309 (1995) 79

Determination of germanium(IV) by catalytic cathodic stripping voltammetry, 309 (1995) 89

Catalytic oxidation of reduced nicotinamide adenine dinucleotide at a microband gold electrode modified with nickel hexacyanoferrate, 310 (1995) 145

Electrocatalysis and amperometric detection of ethanol at ruthenium-based inorganic films with improved response stability, 310 (1995) 257 Extraction with 8-quinolinol and mixed anionic additives using ultrasonic irradiation for the catalytic determination of vanadium in freshwaters, 310 (1995) 501

Kinetic spectrophotometric determination of traces of tungsten(VI) by the catalytic reaction of chlorpromazine with hydrogen peroxide. A mechanistic study, 312 (1995) 179

Amperometric determination of hydrogen peroxide by direct and catalytic reduction at a copper electrode, 319 (1996) 59

Spectrophotometric determination of trace bromide by its catalytic effect on the tetrabase-chloramine T reaction, 319 (1996) 199 Catalytic spectrophotometric methods for the determination of

Catalytic spectrophotometric methods for the determination of oxalic acid, 320 (1996) 139

Kinetic and mechanistic study of the chlorpromazine-hydrogen peroxide reaction for the catalytic spectrophotometric determination of iodide, 320 (1996) 217

Determination of cobalt by catalytic-adsorptive differential pulse voltammetry, 320 (1996) 229

Spectrophotometric determination of rhenium as perrhenate by extraction with amiloride hydrochloride, 322 (1996) 107

Development of a carbon composite electrode made from polyethylene and graphite powder modified with copper(I) oxide, 326 (1996) 107

Properties of poly-β-aminoanthraquinone modified carbon fiber electrode as a basis for hemoglobin biosensors, 327 (1996)

An electrocatalytic approach for the measurement of chlorophenols, 327 (1996) 235

The electrochemical polymerization of methylene green and its electrocatalysis for the oxidation of NADH, 329 (1996) 41

Electrocatalysis and amperometric detection of aliphatic aldehydes at platinum-palladium alloy coated glassy carbon electrode, 330 (1996) 151

Renewable electrode surfaces for monitoring CO<sub>2</sub> based on adsorptive accumulation of catalyst, 334 (1996) 309

Sensitivity enhancement of the methylene blue catalytic-spectrophotometric method of selenium(IV) determination by CTAB, 335 (1996) 155

Kinetic catalytic analysis: Extended theory of continuous addition of catalyst to a reference solution for nonequal reference and sample initial signals, 335 (1996) 185

Kinetic-catalytic-spectrophotometric determination of low concentrations of molybdenum in white wines, 390 (1999) 255

# Catalytic procedure

Flow-injection spectrophotometric catalytic determination of manganese in plants exploiting the aerial oxidation of diphenyl carbazone, 366 (1998) 87

### Catalytic sensors

Amperometric immunosensors and enzyme electrodes for environmental applications, 362 (1998) 47

# Catalytic spectrophotometry

Catalytic simultaneous spectrophotometric determination of nitrite and nitrate with a flow injection system, 370 (1998) 59

Speciation of iron in river and tap waters by catalytic spectrophotometry using oxidation of o-phenylenediamine with hydrogen peroxide, 388 (1999) 35

# Catalyzed fluorogenic reaction

Enhancement effect of Brij-35 on the hemin-catalyzed fluorogenic reaction between hydrogen peroxide and N,N'-dicyanomethyl-ophenylenediamine, 369 (1998) 205

#### Catechins

Determination of flavanols in beers with tissue biosensors, 347 (1997) 281

#### Catechol

- Substituted catechols as complexing agents for the determination of bismuth, lead, copper and cadmium by adsorptive stripping voltammetry, 344 (1997) 87
- Coconut-based plant tissue reactor for biosensing of catechol in flow injection analysis, 354 (1997) 325
- On-line indirect chemiluminescence detection in capillary electrophoresis, 363 (1998) 157
- Synergetic effects in the flow injection analysis determination of catechol in the presence of excess ascorbic acid by series dual-band amperometric detection, 385 (1999) 281
- Improved stability and altered selectivity of tyrosinase based graphite electrodes for detection of phenolic compounds, 387 (1999) 309

# Catechol determinations

Flow-injection determination of catechol with a new tyrosinase/ DNA biosensor, 366 (1998) 137

# Catechol oxidase

Flow injection spectrophotometric determination of sulfite using a crude extract of sweet potato root (*Ipomoea batatas* (L.) Lam.) as a source of polyphenol oxidase, 354 (1997) 51

#### Catecholamines

- A study of irreversible electrode processes under steady-state flowing solution conditions with a microelectrode based scanning electrochemical detector, 324 (1996) 1
- Selective kinetic method based on detecting the intermediate product in successive reactions, 325 (1996) 105
- Aromatic glycinonitriles and methylamines as pre-column fluorescence derivatization reagents for catecholamines, 344 (1997) 233
- On-line indirect chemiluminescence detection in capillary electrophoresis, 363 (1998) 157
- Sensitive catecholamine measurement using a monoenzymatic recycling system, 368 (1998) 233
- Flow injection chemiluminescence determination of catecholamines with electrogenerated hypochlorite, 374 (1998) 105

#### Cathodic stripping

Square-wave voltammetry of a cathodic stripping reaction complicated by adsorption of the reacting ligand, 386 (1999) 47

#### Cathodic stripping potentiometry

- Cathodic stripping potentiometric determination of selenium in biological and environmental materials on a combined electrode with a rotating sample platform, 338 (1997) 199
- Constant current cathodic stripping potentiometric determination of arsenic on a mercury film electrode in the presence of copper ions, 381 (1999) 207

# Cathodic stripping square wave voltammetry

Determination of recombinant human erythropoietin by square wave voltammetry, 305 (1995) 340

#### Cathodic stripping voltammetry

- Square-wave cathodic stripping voltammetry of hydrolyzed uranyl species, 305 (1995) 159
- Determination of dissolved manganese(II) in coastal and estuarine waters by differential pulse cathodic stripping voltammetry, 344 (1997) 175
- A flow cell for on-line monitoring of metals in natural waters by voltammetry with a mercury drop electrode, 346 (1997) 101
- Electrochemical investigations of reactive dyes; cathodic stripping voltammetric determination of anthraquinone-based chlorotriazine dyes at a hanging mercury drop electrode, 349 (1997) 101
- Cathodic stripping voltammetric determination of tellurium(IV) at a Nafion/8-quinolinol mercury film modified electrode, 358 (1998) 285
- Determination of naringin in grapefruit juice by cathodic stripping differential pulse voltammetry at the hanging mercury drop electrode, 360 (1998) 179
- Polarographic and voltammetric determination of triazine-based reactive azo dyes with 4-carboxypyridyl and 1,4-diazabicyclo[2,2,2]octanyl (DABCO) leaving groups, 362 (1998) 235
- Indirect cathodic-stripping voltammetric determination of ceftazidime as a mercury salt, 367 (1998) 255
- In-line deoxygenation for flow analysis with voltammetric detection, 377 (1998) 229
- Cathodic stripping voltammetric determination of ceftazidime with reactive accumulation at a poly-t-lysine modified hanging mercury drop electrode, 384 (1999) 159
- Determination of the vinylsulphone azo dye, remazol brilliant orange 3R, by cathodic stripping voltammetry, 385 (1999) 385
- Cathodic stripping voltammetry of thiosulphate at toxic concentrations, 386 (1999) 221

### Cation chromatography

Aluminum speciation by means of anion chromatography and coupled anion/cation chromatography, 386 (1999) 77

# Cation dye mediator

Biosensoring of hydrogen peroxide using new methylene blue N incorporated in a montmorillonite-modified horseradish peroxidase immobilization matrix as an electron shuttle, 332 (1996) 73

### Cation exchange characteristics

Ion chromatographic behavior of alkali and alkaline earth metal cations on silica gel columns with cation exchange characteristics, 359 (1998) 255

# Cation exchange chromatography

Determination of lanthanides in magnesium alloys by ion chromatography, 333 (1996) 23

# Cation exchange column

Flow immunoassay using a cation exchange column and fluorescence-labelled antibody for detection of allergen, 354 (1997) 29

# Cation exchange HPLC

High performance liquid chromatographic analysis of human hemoglobins and their polypeptide chains: its use in the identification of variants, 352 (1997) 187

### Cation optical sensors

Optical sensors for sodium, potassium and ammonium ions based on lipophilic fluorescein anionic dye and neutral carriers, 357 (1997) 85

Influence of nonionic surfactants on the optical response of cation selective membrane films, 397 (1999) 287

#### Cation-exchange separation

Complex formation of 2-(5-nitro-2-pyridylazo)-5-(N-propyl-Nsulfo-propylamino)phenol with lead, cadmium and manganese for their sensitive spectrophotometric detection in flow injection and ion chromatography systems, 345 (1997) 139

#### Cationic acids

Studies on correlations of acid-base properties of substituted pyridine N-oxides in solutions. Part 1. Correlations of the pK<sub>a</sub> values in non-aqueous solvents and water, 321 (1996) 237

#### Cationic and anionic surfactants

Aqueous two-phase system of cationic and anionic surfactant mixture and its application to the extraction of porphyrins and metalloporphyrins, 369 (1998) 11

### Cationic heteroconjugation

A potentiometric study of cationic heteroconjugation equilibria in systems with substituted pyridine N-oxides in nitrobenzene, 336 (1996) 107

A study of cationic heteroconjugation equilibria of substituted pyridine N-oxides in acetonitrile, 338 (1997) 261

# Cationic homoconjugation

Studies on correlations of acid-base properties of substituted pyridine N-oxides in solutions. Correlations of cationic homoconjugation constants and pK<sub>a</sub> values in non-aqueous media, 334 (1996) 155

# Cationic surfactant

Flow injection chemiluminescence determination of pyrogallol, 368 (1998) 113

Optosensing of cationic surfactants based on host-guest chemistry, 370 (1998) 259

Simple method for spectrophotometric determination of cationic surfactants without liquid-liquid extraction, 384 (1999) 215

#### Cations

New electrolyte system for the determination of ammonium, alkali and alkaline earth cations by capillary electrophoresis, 374 (1998) 159

Simultaneous determination of common mono- and divalent cations in natural water samples by conductimetric detection ion chromatography with an unmodified silica gel column and oxalic acid/18-crown-6 as eluent, 381 (1999) 265

Simple procedure for ion chromatographic determination of anions and cations at trace levels in ice core samples, 389 (1999) 21 Piezoelectric cryptand-coated quartz crystal liquid chromatographic detector for cations/anions and polar organic molecules in solutions, 392 (1999) 125

# Cause-and-effect analysis

Estimation of uncertainties in ICP-MS analysis: a practical methodology, 394 (1999) 281

#### Caustic hydroxide

Direct determination of caustic hydroxide by a micro-titration method with dual-wavelength photometric end-point detection, 341 (1997) 297

#### Cavities

Analysis of some non-linear effects in quantitative electron paramagnetic resonance spectrometry. Non-linear effects due to the use of cavities with TE<sub>102</sub> and TM<sub>110</sub> modes, 353 (1997) 99

#### CCD camera

CCD-camera based capillary chemiluminescent detection of retinol binding protein, 387 (1999) 21

# C<sub>18</sub>-coated Sep-Pak cartridges

Use of C<sub>18</sub> and silica-gel coated Sep-Pak cartridges for the determination of carbonyls in air by liquid chromatography, 367 (1998) 93

### C<sub>60</sub>-γ-cyclodextrin (1:2) inclusion complex

Electrocatalysis by a C<sub>60</sub>-γ-cyclodextrin (1:2) and nafion chemically modified electrode of hemoglobin, 356 (1997) 225

#### CD22

Application of Western-blotting technique with chemiluminescence imaging to the study of haptoglobin type and haptoglobin complexes, 362 (1998) 113

### Cd

SI-traceable values for cadmium and lead concentration in the candidate reference material, MURST-ISS A1 Antarctic sediment, by combination of ICP-MS with isotope dilution, 346 (1997) 17

Assessment of a screening method for metals in seawater based on the non-selective reagent 4-(2-pyridylazo)resorcinol (PAR), 371 (1998) 227

Determination of Ge, As, Se, Cd and Pb in plant materials by slurry sampling-electrothermal vaporization-inductively coupled plasma-mass spectrometry, 372 (1998) 365

Use of 4-(2-pyridylazo)resocinol or 2-(2-pyridylazo)-5-dimethylaminophenol as chelating agent for determination of cadmium in seawater by atomic absorption spectrometry with on-line flowinjection sorbent extraction, 376 (1998) 305

The use of voltammetry for sorption studies of heavy metals on mineral surfaces in presence of the siderophore desferrioxamine B, 392 (1999) 159

#### Cd(II)

Influence of Triton X-100 in stripping potentiometry, 333 (1996)

# Cd2+

Multivariate curve resolution analysis of voltammetric data obtained at different time windows: study of the system Cd<sup>2+</sup>-nitrilotriacetic acid, 371 (1998) 23

# 113Cd-NMR

Complexation of cadmium by the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: study by differential pulse polarography and circular dichroism spectroscopy with multivariate curve resolution analysis, 390 (1999) 15

#### CdS thin films

Resonance Raman spectroscopy as a probe of electrosynthesized materials: principles and selected results, 397 (1999) 43

#### Cefadroxil

Simultaneous determination of cephalexin and cefadroxil by using the coupling technique of synchronous fluorimetry and H-point standard additions method, 325 (1996) 195

#### Cefotetan

Radiosterilization dosimetry by electron-spin resonance spectroscopy: Cefotetan, 359 (1998) 107

# Cefoxitin and acid-degraded cefoxitin determination

A comparison of various calibration techniques applied to the ninhydrin-cefoxitin determination, 334 (1996) 199

#### Ceftazidime

Environmental analysis in the workplace; development of airborne monitoring systems for potentially harmful pharmaceuticals: an improved rapid ELISA for ceftazidime, 311 (1995) 377

Differential pulse polarographic determination of ceftazidime in urine samples with and without prior extraction, 351 (1997)

Indirect cathodic-stripping voltammetric determination of ceftazidime as a mercury salt, 367 (1998) 255

Cathodic stripping voltammetric determination of ceftazidime with reactive accumulation at a poly-L-lysine modified hanging mercury drop electrode, 384 (1999) 159

#### C-ELISA

Immunochemical approach for assay of herbicide thiobencarb, 376 (1998) 97

#### Cell fusion

Preparation of a specific monoclonal antibody against 2'-deoxycytidine, 365 (1998) 121

# Cellobiose dehydrogenase

Electron transfer between cellobiose dehydrogenase and graphite electrodes, 331 (1996) 207

Direct electron transfer between heme-containing enzymes and electrodes as basis for third generation biosensors, 400 (1999)

#### Cellulos

Comparison of thermogravimetric and differential scanning calorimetric results for cellulosic fabrics by chemometrics, 304 (1995) 297

#### Cellulose acetate

A reagentless, disposable biosensor for lactic acid based on a screenprinted carbon electrode containing Meldola's Blue and coated with lactate dehydrogenase, NAD\* and cellulose acetate, 304 (1995) 17

### Cellulose chiral stationary phase

Enantiomeric separation of some piperidine-2,6-dione drugs on tolylcellulose by liquid chromatography, 346 (1997) 183

### Cellulose degradation

Characterization of acid-base and complexation properties of cellulose degradation products using capillary electrophoresis, 375 (1998) 243

Degradation of cellulosic materials under the alkaline conditions of a cementitious repository for low and intermediate level radioactive waste. Part I: Identification of degradation products, 398 (1999) 111

#### Cellulose triacetate

Asymmetric cellulose acetate membrane-based carbonate- and chloride-selective electrodes, 315 (1995) 311

#### Cellulosic fabrics

Prediction of physical properties of fabrics using DRIFT spectroscopy and thermal analysis, 332 (1996) 105

#### Cephalexin

Simultaneous determination of cephalexin and cefadroxil by using the coupling technique of synchronous fluorimetry and H-point standard additions method, 325 (1996) 195

A new derivatization procedure for the determination of cephalexin with 1,2-naphthoquinone 4-sulphonate in pharmaceutical and urine samples using solid-phase extraction cartridges and UV–visible detection, 370 (1998) 115

#### Cephalosporins

Determination of cephalosporins in urine and bile by capillary zone electrophoresis, 349 (1997) 207

Molecular challenges in modern chemometrics, 400 (1999) 413

## Ceramic colour standards

Determination of colorimetric uncertainties in the spectrophotometric measurement of colour, 380 (1999) 277

Durability and cleaning of matt surface ceramic colour standards, 380 (1999) 413

### Ceramic hydroxyapatite

Separation of double-strand DNA fragments by high-performance liquid chromatography using a ceramic hydroxyapatite column, 386 (1999) 69

#### Ceramics

Analysis of silicon nitride bearings with laser ablation inductively coupled plasma mass spectrometry, 355 (1997) 113

# Cerebrospinal fluid

Continuous in-vivo monitoring of metronidazole in cerebrospinal fluid by a on-line flow-cell fiber-optic chemical sensor system, 331 (1996) 103 Heterogeneous humoral immune responses in cerebrospinal fluid arising from inflammatory diseases of the human central nervous system. Detection of oligoclonal immunoglobulin bands after isoelectric focusing, 393 (1999) 83

#### Cerenkov

Microwave-assisted pre-treatment of environmental samples for the determination of <sup>90</sup>Sr, 379 (1999) 135

#### Ceric sulfate

An electrocatalytic approach for the measurement of chlorophenols, 327 (1996) 235

#### Cerium

Chemiluminescent determination of tryptophan in a flow injection system, 317 (1995) 233

Automated particle collection and analysis. Near-real time measurement of aerosol cerium (III), 361 (1998) 151

#### Cerium dioxide

CeO<sub>2</sub> thin film electrode with a built-in electrochemically resetable oxidant for potentiometric stripping analysis, 329 (1996) 239

Column solid-phase extraction of heavy metal ions on a high surface area CeO<sub>2</sub> as a preconcentration method for trace determination, 336 (1996) 141

#### Cerium oxide

Liquid chromatographic separation of polycyclic aromatic hydrocarbons with cerium(IV) oxide as packing material, 309 (1995) 153

### Cerium(IV)

Chemiluminescence determination of captopril based on a Rhodamine B sensitized cerium(IV) method, 303 (1995) 121

Flow-injection chemiluminometric determination of some phenothiazines in dosage forms and biological fluids, 358 (1998) 255

### Certified reference materials

Use of a certified reference material for extractable trace metals to assess sources of uncertainty in the BCR three-stage sequential extraction procedure, 382 (1999) 317

### Certified standard reference materials

Simultaneous multielement determination in complex matrices using frequency-modulated electrothermal atomic absorption spectrometry, 310 (1995) 181

#### Certified waste waters

Determination of pentachlorophenol in certified waste waters, soil samples and industrial effluents using ELISA and liquid solid extraction followed by liquid chromatography, 346 (1997) 49

#### Cesium

Cesium-selective chemically modified field effect transistors with calix[4]arene-crown-6 derivatives, 310 (1995) 263

### Cetylpyridinium chloride

Hexadecylpyridinium chloride micelles for the simultaneous kinetic determination of cysteine and cystine by their induction of the iodine-azide reaction, 337 (1997) 341

#### Cetyltrimethylammonium bromide

A new method for the voltammetric determination of molybdenum(VI) using carbon paste electrodes modified in situ with cetyltrimethylammonium bromide, 350 (1997) 319

#### Cetyltrimethylammonium chloride

Novel preconcentration technique for trace metal ions by aggregate film formation. Spectrophotometric determination of copper(II), 364 (1998) 13

# Chalcogenide based Cu-ISE

Flow injection discrimination of the chloride interference with Cu(II) electrode function of chalcogenide based solid-state copper ion-selective electrodes, 362 (1998) 221

#### Chalcon

Quantitative structure-electrochemistry relationships of α,β-unsaturated ketones, 305 (1995) 295

#### Channel capacity

The quality of quantitation in chromatography Part I. Information theoretical considerations, 333 (1996) 3

#### Characterisation

Analytical characterisation and application of a p-benzoquinone mediated amperometric graphite sensor with covalently linked glucoseoxidase, 315 (1995) 101

Electroimmobilisation of sulphite oxidase into a polypyrrole film and its utilisation for flow amperometric detection of sulphite, 332 (1996) 145

Degradation of cellulosic materials under the alkaline conditions of a cementitious repository for low and intermediate level radioactive waste. Part I: Identification of degradation products, 398 (1999) 111

# Characteristics selection

A study of Roman pottery (terra sigillata) using hierarchical fuzzy clustering, 310 (1995) 269

#### Characterization of metalloporphyrins

Three analytical methods to isolate and characterize vanadium and nickel porphyrins from heavy crude oil, 395 (1999) 343

#### Charge and mass transfer rates

Effect of surface activation on charge and mass transfer rates of the hexacyanoferrate(III)/(II) redox probe at fibrinogen-modified carbon paste electrodes, 340 (1997) 99

# Charge coupled device (CCD)

Flow methods for the determination of polycyclic aromatic hydrocarbons using low power photomultiplier tube and charge coupled device chemiluminescence detection, 346 (1997) 113

# Charge coupled device-camera

Optimization of a charge coupled device imaging enzyme linked immuno sorbent assay and supports for the simultaneous determination of multiple 2,4-D samples, 347 (1997) 87

# Charge densities

Fast calculation of π-electron charge densities in organic molecules: Non-condensed compounds, 314 (1995) 101

### Charge shift

Electrophoresis of hydrophobic proteins, 383 (1999) 101

#### Charge transfer interactions

Toxic interactions between clozapine and ampicillin, 319 (1996) 353

#### Charge-coupled device

Fast spatially resolved surface-enhanced Raman spectrometry on a silver coated filter paper using charge-coupled device detection, 310 (1995) 337

Multiwavelength fluorescence detection for purity analysis of fluorescence agents using capillary electrophoresis with a chargecoupled device, 322 (1996) 187

# Charged complex ion-exchanger

Novel separation of inorganic anions using a charged complex ionexchanger, 334 (1996) 1

# Charge-transfer

Influence of ionization energy on charge-transfer ionization in matrix-assisted laser desorption/ionization mass spectrometry, 397 (1999) 235

# Chattonella marina

Detection of the red tide-causing plankton Chattonella marina using a piezoelectric immunosensor, 325 (1996) 73

#### Cheese cloth

Whole blood glucose determination using glucose oxidase immobilized on cotton cheese cloth, 338 (1997) 135

#### Chelamine

Speciation of Cu, Pb, Cd and Hg in waters of the Oporto coast in Portugal, using pre-concentration in a Chelamine resin column, 353 (1997) 189

### Chelate complexes

Surface-enhanced resonance Raman spectroscopy of 2-pyridylhydrazone and 1,10-phenanthroline chelate complexes with metal ions on colloidal silver, 318 (1996) 229

### Chelate ring size effects

The effect of chelate ring size on metal ion size-based selectivity in polyamine ligands containing pyridyl and saturated nitrogen donor groups, 312 (1995) 307

# Chelates

Time-resolved, total internal reflection fluorescence microscopy of cultured cells using a Tb chelate label, 307 (1995) 403

A fluorescence polarization immunoassay for cadmium(II), 399 (1999) 161

### Chelating agent

Use of 4-(2-pyridylazo)resocinol or 2-(2-pyridylazo)-5-dimethylaminophenol as chelating agent for determination of cadmium in seawater by atomic absorption spectrometry with on-line flowinjection sorbent extraction, 376 (1998) 305

### Chelating resin

Synthesis and efficiency of an epoxy-tannin chelating resin for preconcentrating and separating various rare elements, 310 (1995) 493

Anion-exchange resin modified with pyrocatechol violet as a functional resin for retention of Sn(IV), 338 (1997) 231

A chelating resin containing 4-(2-thiazolylazo)resorcinol as the functional group Synthesis and sorption behaviour for trace metal ions, 339 (1997) 303

Pyrocatechol Violet immobilized Amberlite XAD-2: synthesis and metal-ion uptake properties suitable for analytical applications, 340 (1997) 285

Preconcentration and separation of palladium(II) and platinum(IV) on a dithizone anchored poly(vinylpyridine)-based chelating resin, 341 (1997) 217

A chelating resin containing 4-(2-thiazolylazo)resorcinol as the functional group. Chromatographic application to the preconcentration and separation of some trace metal ions including uranium, 351 (1997) 57

Separation and preconcentration of uranium from geological materials with chelating resin containing 4-(2-thiazolylazo)resorcinol functional groups, 382 (1999) 199

#### Chelation

Post-column zirconium chelation and fluorescence detection for the liquid chromatographic determination of tetracyclines, 303 (1995) 11

Synthesis and characterisation of 8-hydroxyquinoline-bovine serum albumin conjugates as metal ion chelating proteins, 378 (1999) 225

# Chelation ion chromatography

Chelation ion chromatography as a technique for trace elemental analysis in complex matrix samples, 337 (1997) 173

γ-Aminobutyrohydroxamate resins as stationary phases of chelation ion chromatography, 369 (1998) 225

Chelation ion chromatography of metal ions using an ODS reversedphase column and a mobile phase containing methylthymol blue, 375 (1998) 117

# Chelex-100

A reusable optical sensing layer for picric acid based on the luminescence quenching of the Eu-thenoyltrifluoroacetone complex, 318 (1996) 175

Influence of the ratio copper(II) to ligand concentrations and the nature of entering and leaving ligands on the lability of copper(II) complexes, 330 (1996) 273

Additional evidence of the operational character of the lability of complexes of copper(II) with simple organic ligands, 333 (1996) 97

Study of sorption of copper(II) on complexing resin columns by solid phase extraction, 389 (1999) 59

Thallium speciation in river waters with Chelex-100 resin, 395 (1999) 301

#### Chelex 100 resin

Off-line separation and determination of inorganic arsenic species in natural water by high resolution inductively coupled plasma mass spectrometry with hydride generation combined with reaction of arsenic(V) and L-cysteine, 375 (1998) 167

# **CHEMFETs**

Cesium-selective chemically modified field effect transistors with calix[4]arene-crown-6 derivatives, 310 (1995) 263

Application of a new phosphadithiamacrocycle to ClO<sup>-</sup><sub>4</sub>-selective CHEMFET and ion-selective electrode devices, 320 (1996) 63

Durable nitrate-selective chemically modified field effect transistors based on new polysiloxane membranes, 332 (1996) 123

Polysiloxane based CHEMFETs for selective detection of Ca<sup>2+</sup> ions, 357 (1997) 225

### Chemical binding

Potentiometric titration of poly(acrylic acid) in mixed counterion systems: Chemical binding of Cd ions, 369 (1998) 109

### Chemical bonding of metal cation

Synthesis and properties of mercaptosilicone modified by Ni(II) and Co(II) as stationary phases for capillary complexation gas chromatography, 377 (1998) 61

### Chemical code

General type of a uniform and reversible representation of chemical structures, 348 (1997) 409

#### Chemical dosimeter

Evaluation of a chemical vapor dosimeter using polymer-coated SERS substrates, 399 (1999) 265

# Chemical evolution

Light-independent isomerization of bacteriochlorophyll g to chlorophyll a catalyzed by weak acid in vitro, 365 (1998) 199

# Chemical imaging

Analysis of chemical dynamics in microenvironments, 400 (1999) 5

### Chemical ionization

Evaluation of ticlopidine in human serum and plaque by liquid chromatography/atmospheric pressure chemical ionization mass spectrometry, 354 (1997) 87

# Chemical modification

Determination of gallium by graphite furnace atomic absorption spectrometry with combined use of a tungsten-coated L'vov platform tube and a chemical modification technique, 390 (1999) 201

# Chemical modifier

Direct determination of cadmium in solid biological materials by slurry sampling electrothermal atomic absorption spectrometry with polytetrafluoroethylene as a chemical modifier, 391 (1999)

Study and comparison of several chemical modifiers for selenium determination in human serum by Zeeman electrothermal atomic absorption spectrometry, 398 (1999) 279

# Chemical oxygen demand

Reduction of chloride ion interference in chemical oxygen demand (COD) determinations using bismuth-based adsorbents, 357 (1997) 167 Rapid determination of chemical oxygen demand by a semi-automated method based on microwave sample digestion, chromium(VI) organic solvent extraction and flame atomic absorption spectrometry, 372 (1998) 399

Chemical oxygen demand sensor employing a thin layer electrochemical cell, 386 (1999) 211

Evaluation of chemical oxygen demand (COD) based on coulometric determination of electrochemical oxygen demand (EOD) using a surface oxidized copper electrode, 398 (1999) 161

#### Chemical sensor array

Application of fuzzy clustering and piezoelectric chemical sensor array for investigation on organic compounds, 398 (1999) 219

#### Chemical sensors

Piezoelectric sensor for detection of organic amines in aqueous phase based on a polysiloxane coating incorporating acidic functional groups, 345 (1997) 29

A comparison study of chemical sensor array pattern recognition algorithms, 384 (1999) 305

An artificial nose based on a micromechanical cantilever array, 393 (1999) 59

Electrochemical deposition and properties of polypyrrole films doped with calcion ligands, 395 (1999) 65

Theory and practice of rapid flow-through analysis based on ionselective optode detection and its application to sodium ion determination, 396 (1999) 131

Simple detector for oral malodour based on spectrofluorimetric measurements of hydrogen sulphide in mouth air, 398 (1999) 23

### Chemical separation

Chemical separation and inductively coupled plasma-atomic emission spectrometric determination of seventeen trace metals in thorium oxide matrix using a novel extractant – Cyanex-923, 370 (1998) 163

#### Chemical shift

Stepwise extraction of two lead ions with a single molecule of calix[4]arene tetracarboxylic acid, 387 (1999) 61

# Chemical shift estimation in 'H NMR

New parameters for predicting <sup>1</sup>H NMR chemical shifts of protons attached to carbon atoms, 312 (1995) 95

# Chemical speciation

A critical evaluation of the three-stage BCR sequential extraction procedure to assess the potential mobility and toxicity of heavy metals in industrially-contaminated land, 363 (1998) 45

Chemical speciation study of platinum group elements in geological samples by stepwise dissolution and inductively coupled plasma mass spectrometry, 374 (1998) 93

Thallium speciation in river waters with Chelex-100 resin, 395 (1999) 301

# Chemical vapor deposition

Copper(II) ion-sensitive electrode using chemical vapor deposited Nb-Ge superconducting films, 382 (1999) 151

# Chemical wastes

Elemental analysis of chemical wastes by oxygen bomb combustion-ion chromatography, 334 (1996) 51

# Chemically bonded phases

Iminoketonate complexes of Cu(II) chemically bonded to silica in gas chromatography, 378 (1999) 101

# Chemically modified carbon paste electrode

Electrochemical behavior and determination of gold at chemically modified carbon paste electrode by the ethylenediamine fixed humic acid preparation, 361 (1998) 133

# Chemically modified chitosan

Adsorptive separation of some metal ions by complexing agent types of chemically modified chitosan, 388 (1999) 209

# Chemically modified complexing silicas

Silica chemically modified with N-benzoyl-N-phenylhydroxylamine in chemisorption of hydrogen and metal ions, 379 (1999) 11

# Chemically modified electrodes

- Effect of surface-active agents on amperometric NADH measurements with chemically modified electrodes, 305 (1995) 65
- Imidazole modified silver electrode and its application to the investigation of the electrochemistry of cytochrome c, 319 (1996) 275
- Electrochemical detection of NADH and dopamine in flow analysis based on tetraruthenated porphyrin modified electrodes, 329 (1996) 91
- Liquid chromatography/electrochemical detection of phenols at a Poly[Ni-(Protoporphyrin IX)] chemically modified electrode, 336 (1996) 195
- Simultaneous determination of caffeine and acetaminophen in drug formulations by square-wave voltammetry using a chemically modified electrode, 342 (1997) 175
- Electrocatalysis of NADH oxidation with electropolymerized films of nile blue A, 343 (1997) 69
- Electrocatalytic oxidation of H<sub>2</sub>O<sub>2</sub> at an oxycobalt film modified glassy carbon electrode for fermentation monitoring, 351 (1997) 133
- Electrocatalysis by a C<sub>60</sub>-\(\gamma\)-cyclodextrin (1:2) and nafion chemically modified electrode of hemoglobin, 356 (1997) 225
- Differential pulse anodic stripping voltammetric determination of copper(II) with N-phenylcinnamohydroxamic acid modified carbon paste electrodes, 368 (1998) 165
- Voltammetric determination of serotonin in human blood using a chemically modified electrode, 369 (1998) 103
- Silk fibroin/cellulose acetate membrane electrodes incorporating xanthine oxidase for the determination of fish freshness, 369 (1998) 245
- Potentiometric stripping analysis of copper using cysteine modified mercury film electrode, 373 (1998) 39
- Determination of thiocompounds by liquid chromatography with amperometric detection at a Nafion/indium hexacyanoferrate film modified electrode, 386 (1999) 21

- Electrocatalytic reduction of nitrite at a glassy carbon electrode surface modified with palladium(II)-substituted Keggin type heteropolytungstate, 388 (1999) 103
- Determination of nonelectroactive cations by capillary electrophoresis with amperometric detection at a graphite electrode modified with a thin film of mixed-valent ruthenium-iron cyanide, 391 (1999) 29
- Multichannel amperometric detection system for liquid chromatography to assay the thiols in human whole blood using the platinum microelectrodes chemically modified by copper tetraaminophthalocyanine, 399 (1999) 213

# Chemically modified nitropolystyrene

Piezoelectric quartz crystal humidity sensor using chemically modified nitrated polystyrene as water sorbing coating, 332 (1996) 93

#### Chemiluminescence

- Chemiluminescence assays of organophosphorus and carbamate pesticides, 302 (1995) 53
- 6-Isothiocyanatobenzo [g]phthalazine-1,4(2H,3H)-dione as a highly sensitive chemiluminescence derivatization reagent for amines in liquid chromatography, 302 (1995) 61
- Sensitivity enhancement in the determination of silicate by ionexclusion chromatography using luminol chemiluminescence detection, 302 (1995) 173
- Selective stopped-flow determination of manganese with luminol in the absence of hydrogen peroxide, 302 (1995) 275
- A method of repeated sampling of static headspace above anaerobic bacterial cultures with fluorine-induced chemiluminescence detection, 303 (1995) 91
- Determination of phthalate-induced rat liver cytochrome P-450 IVA1 by a fluorimetric enzymatic assay and by chemiluminescence detection on Western blots, 303 (1995) 99
- Evaluation of lophine derivatives as chemiluminogens by a flowinjection method, 303 (1995) 103
- Chemiluminometric enzyme sensors for flow-injection analysis, 303 (1995) 109
- Chemiluminescence determination of captopril based on a Rhodamine B sensitized cerium(IV) method, 303 (1995) 121
- Ozone chemiluminescence in environmental analysis, 303 (1995)
- Chemiluminescence determination of some local anaesthetics, 303 (1995) 137
- Comparison of chemiluminescent and chromogenic substrates of alkaline phosphatase in a direct immunoassay for plasma estradiol, 303 (1995) 143
- Liquid chromatographic determination of cyclosporin A using aryl oxalate chemiluminescence detection, 303 (1995) 333
- Chemiluminescence of protected hemiaminal N-methoxymethyl-N'-methyl-9,9'-biacridylidene in homogeneous and micellar media. Prospects for analytical applications, 304 (1995) 91
- A flow-injection type chemiluminescence-based sensor for cyanide, 304 (1995) 369
- Determination of theophylline by liquid chromatography with sensitized lanthanide luminescence detection, 306 (1995) 49
- Chemiluminescent assay of alkaline phosphatase using phenacyl phosphate, 306 (1995) 161

- Flow-injection chemiluminometric determination of ascorbic acid based on its sensitized photooxidation, 308 (1995) 299
- Simultaneous flow injection determination of nitrate and nitrite in water by gas-phase chemiluminescence, 308 (1995) 308
- Ruthenium(II) tris-(2,2'-bipyridine)-specific extrinsic lyoluminescences of x-ray irradiation colored and electrolytically colored alkali halides, 309 (1995) 197
- Development of a novel chemiluminescent probe, 4-(5',6'-dimethoxybenzothiazolyl) phthalhydrazide, 309 (1995) 211
- Highly sensitive immunological assays for human chorionic gonadotrophin and prostatic acid phosphatase using phenacyl phosphate as a chemiluminescent label, 309 (1995) 221
- Chemiluminescent enzymatic assay for cholesterol in serum using lucigenin, 310 (1995) 347
- Study of the enhanced chemiluminescence from the luminol-horseradish peroxidase-hydrogen peroxide-p-coumaric acid system at very short times: stopped flow selective determination of pcoumaric acid in beers, 310 (1995) 399
- Determination of branched-chain \( \ell \)-amino acids by flow-injection analysis with co-immobilized leucine dehydrogenase/ NADH oxidase and chemiluminescence detection, 311 (1995) 71
- Evaluation of peroxyoxalate chemiluminescence for the sensitive determination of hallucinogenic alkaloids, 314 (1995) 87
- Flow-injection chemiluminescence determination of ultra low concentrations of nitrite in water, 316 (1995) 261
- Development of a chemiluminescence detector with photodiode detection for flow-injection analysis and its application to /lactate analysis, 316 (1995) 323
- Chemiluminescent determination of tryptophan in a flow injection system, 317 (1995) 233
- Chemiluminescence flow system for the monitoring of chromium(VI) in water, 318 (1995) 71
- Determination of codeine in process streams using flow-injection analysis with chemiluminescence detection, 318 (1996) 309
- Non-porous spherical polymer particles for luminescent solid phase detection reactors, 320 (1996) 87
- Enhancement of peroxyoxalate chemiluminescence by copper(II) in flow injection analysis; optimization by factorial design analysis, 320 (1996) 99
- Synchronous scanning second derivative spectrofluorimetry for the simultaneous determination of diflunisal and salicylic acid added to serum and urine as ternary complexes with terbium and EDTA, 320 (1996) 107
- On-line monitoring of glucose and penicillin by sequential injection analysis, 320 (1996) 199
- Enhanced chemiluminescence kinetic ELISA of dichlorprop methyl ester, 321 (1996) 213
- Flow-injection analysis with chemiluminescent detection of sulphite using Na<sub>2</sub>CO<sub>3</sub>-NaHCO<sub>3</sub>-Cu<sup>2+</sup> system, 323 (1996) 69
- Selective determination of gas dialysable components in complex sample solutions using triangle programmed coulometric titration in continuous flow systems., 324 (1996) 115
- A novel biosensor system for cyanide based on a chemiluminescence reaction, 329 (1996) 111
- The relative significance of multiple pathways in peroxyoxalate chemiluminescence reactions, 329 (1996) 117

- Highly sensitive chemiluminescence flow injection analysis system using microbial peroxidase and a photodiode detector, 329 (1996) 127
- Determination of CO<sub>2</sub>(g) by enhancement of luminol-cobalt(II) phthalocyanine chemiluminescence: Analysis of atmospheric air and human breath, 329 (1996) 305
- Determination of inorganic anions in water samples by ionexchange chromatography with chemiluminescence detection based on the neutralization reaction of nitric acid and potassium hydroxide, 331 (1996) 239
- Chemiluminescence arising from the oxidation of bilirubin in aqueous media, 333 (1996) 267
- Effect of organic solvent on tris(2,2'-bipyridyl)ruthenium(III) chemiluminescent reactions in flowing streams, 334 (1996) 183
- Chemiluminescence assay of alkaline phosphatase using cortisol-21-phosphate as substrate and its application to enzyme immunoassays, 337 (1997) 335
- Chemiluminescence of β-lactam antibiotics following oxidation by potassium superoxide, 338 (1997) 1
- Flow injection amperometric and chemiluminescence individual and simultaneous determination of lysine and glucose with immobilized lysine oxidase and glucose oxidase, 338 (1997) 149
- Chemiluminescence detection of porphyrins with the peroxyoxalate reaction by flow-injection analysis, 339 (1997) 131
- Chemiluminescent flow injection determination of alkaline phosphatase and its applications to enzyme immunoassays, 339 (1997) 139
- Intrinsic and 1-aminonaphthalene-4-sulfonate-specific extrinsic lyoluminescences of X-ray irradiated sodium chloride, 340 (1997) 245
- Determination of glyphosate and related compounds using HPLC with tris(2,2'-bipyridyl)ruthenium(II) electrogenerated chemiluminescence detection, 341 (1997) 195
- Electrogenerated chemiluminescence for determination of indole and tryptophan, 341 (1997) 251
- Flow methods for the determination of polycyclic aromatic hydrocarbons using low power photomultiplier tube and charge coupled device chemiluminescence detection, 346 (1997) 113
- 6-Aminomethylphthalhydrazide as a highly sensitive chemiluminescence derivatization reagent for 5-hydroxyindoles in liquid chromatography, 346 (1997) 175
- On-line electrogenerated Ru(bpy) $_3^{3+}$  chemiluminescent detection of  $\beta$ -blockers separated with capillary electrophoresis, 347 (1997) 289
- X-ray irradiated sodium chloride as an excitation source for the sensitized terbium(III)-specific chemiluminescence of aromatic Tb(III) chelates in aqueous solutions, 347 (1997) 333
- Luminol-specific extrinsic lyoluminescence of X-ray irradiated sodium chloride, 349 (1997) 1
- Coupling of membrane-immobilized enzyme reaction and heteropoly acid-luminol chemiluminescence reaction for the determination of adenosine-5'-triphosphate, 349 (1997) 159
- The determination of chlorogenic acid in cigarettes by inhibited chemiluminescence analysis, 351 (1997) 241
- Chemiluminescence flow injection analysis of reducing agents based on the luminol reaction, 353 (1997) 345

- Improvement on simultaneous determination of chromium species in aqueous solution by ion chromatography and chemiluminescence detection, 354 (1997) 107
- Direct chemiluminescence determination of ascorbic acid using flow injection analysis, 356 (1997) 289
- Peroxyoxalate chemiluminescence in aqueous solutions: Coupling of immobilized enzyme reactors and 1,1'-oxalyldiimidazole chemiluminescence reaction to flow-injection analysis and liquid chromatographic systems, 357 (1997) 111
- Chemiluminescence flow sensor for the determination of vitamin  $B_{12}$ , 357 (1997) 127
- Flow injection chemiluminescence determination of hydrazine, 358 (1998) 121
- Flow-injection chemiluminometric determination of some phenothiazines in dosage forms and biological fluids, 358 (1998) 255
- Determination of sub-nanomolar levels of iron in seawater using flow injection with chemiluminescence detection, 361 (1998) 189
- Reagentless chemiluminescence flow sensor for sulfite, 361 (1998) 201
- Synthesis and spectroscopic properties of new luminol-linked calixarene derivatives, 362 (1998) 121
- Determination of 5-hydroxytryptamine (serotonin) and related indoles by flow injection analysis with acidic potassium permanganate chemiluminescence detection, 362 (1998) 131
- On-line indirect chemiluminescence detection in capillary electrophoresis, 363 (1998) 157
- Sol-gel horseradish peroxidase biosensor for hydrogen peroxide detection by chemiluminescence, 363 (1998) 221
- Chemiluminescence from fluorescent organic compounds induced by cobalt(II) catalyzed decomposition of peroxomonosulfate, 371 (1998) 163
- Flow injection chemiluminescent determination of trace amounts of hydrogen peroxide in snow-water using KIO<sub>4</sub>-K<sub>2</sub>CO<sub>3</sub> system, 371 (1998) 171
- Chemiluminescence flow-sensing system for hydrogen peroxide with immobilized reagents, 372 (1998) 357
- Flow injection chemiluminescence determination of catecholamines with electrogenerated hypochlorite, 374 (1998) 105
- Application of gallic acid and xanthene dyes for determination of ozone in air with a chemiluminescence aerosol detector, 374 (1998) 297
- Selective and sensitive determination of trace manganese in sea water by flow through technique using luminol-hydrogen peroxide chemiluminescence detection, 377 (1998) 125
- Determination of copper complexation in seawater using flow injection analysis with chemiluminescence detection, 377 (1998) 133
- Analytical applications of tris(2,2'-bipyridyl)ruthenium(III) as a chemiluminescent reagent, 378 (1999) 1
- Detection of active methylene compounds having cyano and carbonyl groups with chemiluminescent reaction using tris(2,2'bipyridine)ruthenium(III) prepared by on-line electrochemical oxidation, 378 (1999) 43
- A chemiluminescence derivatization method for detecting nucleic acids and DNA probes using a trimethoxyphenylglyoxal reagent that recognizes guanine, 381 (1999) 155

- Hydrated electron-induced chemiluminescence of thallium(I) ion, 382 (1999) 233
- Determination of Ranitidine and Salbutamol by Flow Injection Analysis with Chemiluminescence Detection, 384 (1999) 151
- CCD-camera based capillary chemiluminescent detection of retinol binding protein, 387 (1999) 21
- Two chemical approaches for the production of stable solutions of tris(2,2'-bipyridyl)ruthenium(III) for analytical chemiluminescence, 388 (1999) 1
- Flow injection chemiluminescence determination of ornithine and sequential determination of ornithine and lysine by using immobilized lysine oxidase, 388 (1999) 339
- Chemiluminescence of β-lactam antibiotics based on the luminol reaction, 389 (1999) 89
- Highly sensitive chemiluminescence flow-injection detection of the red tide phytoplankton Heterosigma carterae, 390 (1999) 237
- Chemiluminescence of sulfite based on auto-oxidation sensitized by rhodamine 6G, 391 (1999) 95
- Direct flow injection chemiluminescence determination of salicylamide, 394 (1999) 159
- Chemiluminescence flow-injection determination of furosemide based on a rhodamine 6G sensitized cerium(IV) method, 396 (1999) 273
- Chemiluminescence detection with a liquid core waveguide. Determination of ammonium with electrogenerated hypochlorite based on the luminol-hypochlorite reaction, 398 (1999) 33
- Semi-automated membrane based chemiluminescent immunosensor for flow injection analysis of okadaic acid in mussels, 398 (1999)
- Very fast peroxyoxalate chemiluminescence, 400 (1999) 257

# Chemiluminescence detection

- A sensitive method for the determination of 6-nitrochrysene, 2-nitro-fluoranthene and 1-, 2- and 4-nitropyrenes in airborne particulates using high-performance liquid chromatography with chemiluminescence detection, 343 (1997) 251
- Chemiluminescence measurement of tertiary amines using the continuous-addition-of-reagent technique. Determination of trimethylamine in fish samples, 356 (1997) 51
- Simultaneous biosensing of ethanol and glucose with combined use of a rotating bioreactor and a stationary column reactor, 380 (1999) 1
- In situ cell for electrochemically generated Ru(bpy)<sup>3+</sup><sub>3</sub>-based chemiluminescence detection in capillary electrophoresis, 383 (1999) 213
- Chemiluminescence-based liquid chromatographic determination of hydrochlorothiazide and captopril, 386 (1999) 257
- Flow-injection- and sequential-injection immunoassay for triiodothyronine using acridinium ester chemiluminescence detection, 398 (1999) 183

# Chemiluminescent inhibition

Flow injection analysis of tannic acid with inhibited chemiluminescent detection, 362 (1998) 151

### Chemiluminiscence

Flow injection chemiluminescence determination of pyrogallol, 368 (1998) 113

# Chemiluminometric

Chemiluminometric branched chain amino acids determination with immobilized enzymes by flow-injection analysis, 375 (1998) 65

# Chemisorption

- Silica chemically modified with N-benzoyl-N-phenylhydroxylamine in chemisorption of hydrogen and metal ions, 379 (1999) 11
- Screening effects in surface infrared spectra of CO adsorbed on electrodes: application to isothermal desorption measurements, 397 (1999) 53

#### Chemometric

Statistical evaluation of data obtained by inductively coupled plasma atomic emission spectrometry (ICP-AES) for archaeological copper ingots, 389 (1999) 141

# Chemometric approach

Modelling and optimization of cyanidation process. A chemometric approach by regression analysis, 367 (1998) 123

# Chemometrics

- Retention time shift adjustments of two-way chromatograms using Bessel's inequality, 304 (1995) 57
- Detection of effects of ozone on birch, Betula pendula Roth., by chemometrical evaluation of concentrations of lipid components in leaves, 304 (1995) 209
- Determination of mixed metal ions by complexometric titration and nonlinear partial least squares calibration, 304 (1995) 217
- Random error bias in principal component analysis. Part I. derivation of theoretical predictions, 304 (1995) 257
- Comparison of thermogravimetric and differential scanning calorimetric results for cellulosic fabrics by chemometrics, 304 (1995) 297
- Resolution of hidden minor peaks in multidetection chromatography by estimation of a single parameter in a 2-D transformation matrix, 309 (1995) 123
- Pollution of a river basin and its evolution with time studied by multivariate statistical analysis, 310 (1995) 15
- A near-infrared reflectance analysis method for the noninvasive identification of film-coated and non-film-coated, blister-packed tablets, 310 (1995) 43
- Evaluation of multicomponent flow-injection analysis data by use of a partial least squares calibration method, 310 (1995) 53
- A study of Roman pottery (terra sigillata) using hierarchical fuzzy clustering, 310 (1995) 269
- Applying moving median digital filter to mass spectrometry and potentiometric titration, 310 (1995) 281
- Simultaneous determination of plutonium alpha emitters by liquid scintillation counting using multivariate calibration, 310 (1995) 297
- Variable alignment of high resolution data by cluster analysis, 310 (1995) 485
- Further investigation on a comparative study of simulated annealing and genetic algorithm for wavelength selection, 311 (1995) 1
- Determination of nitrate in municipal waste water by UV spectroscopy, 312 (1995) 107

- Continuous flow titration system for the generation of multivariate spectrophotometric data in the study of acid-base equilibria, 312 (1995) 189
- Chemometric analysis and extraction processes of mandarin essential oils, 312 (1995) 199
- Analysis of plastic recycling products by expert systems, 312 (1995) 231
- Optimization of liquid chromatographic parameters for the separation of priority phenols by using mixed-level orthogonal array design, 312 (1995) 271
- A fuzzy filter for removing interferences among membership grade functions An application to pre-treatment of data in olive oil authentication, 312 (1995) 281
- Advantages of target factor analysis against multiple linear regression methods for testing model equations in linear free energy relationships, 312 (1995) 295
- Rapid and quantitative analysis of metabolites in fermentor broths using pyrolysis mass spectrometry with supervised learning: application to the screening of Penicillium chrysogenum fermentations for the overproduction of penicillins, 313 (1995) 25
- MOLGEN\*, a generator of connectivity isomers and stereoisomers for molecular structure elucidation, 314 (1995) 141
- Resolution of overlapping UV-visible absorption bands: quantitative analysis of tautomeric equilibria, 314 (1995) 225
- Spectral transformation and wavelength selection in near-infrared spectra classification, 315 (1995) 243
- Calibration line adjustment to facilitate the use of synthetic calibration samples in near-infrared spectrometric analysis of pharmaceutical production samples, 315 (1995) 257
- H-Point standard additions method for resolution of binary mixtures with simultaneous addition of both analytes, 315 (1995) 267
- Ruggedness tests for a high-performance liquid chromatographic assay: comparison of an evaluation at two and three levels by using two-level Plackett-Burman designs, 316 (1995) 15
- Structure-property relationship between half-wave potentials of organic compounds and their topology, 316 (1995) 39
- Reduction of the relative standard deviation in the least-squares fitting of linearized equations by using sensitivity weights, 316 (1995) 173
- Simultaneous decomposition of several spectra into the constituent Gaussian peaks, 316 (1995) 195
- Interactive rank annihilation: a graphic approach to quantification in grey multicomponent systems, 316 (1995) 225
- Comparison of an adaptive resonance theory based neural network (ART-2a) against other classifiers for rapid sorting of post consumer plastics by remote near-infrared spectroscopic sensing using an InGaAs diode array, 317 (1995) 1
- Assessment of peak purity in liquid chromatography using condition index and singular value evolving profiles, 317 (1995) 17
- Elucidating the composition of atmospheric aerosols through the combined hierarchical, non-hierarchical and fuzzy clustering of large electron probe microanalysis data sets, 317 (1995) 33
- How chemometrics can helpfully assist in evaluating environmental data. Lagoon water, 317 (1995) 53
- Numerical simulation of crude oil behaviour from chromatographic data, 317 (1995) 107

- Corrections for heteroscedasticity in window evolving factor analysis, 318 (1996) 125
- Properties of local rank map vectors from multidetection chromatograms, 318 (1996) 137
- Chemometric methods for the development of a biosensor system and the evaluation of inhibition studies with solutions and mixtures of pesticides and heavy metals Part 1. Development of an enzyme electrodes system for pesticide and heavy metal screening using selected chemometric methods, 318 (1996) 275
- Application of pattern recognition to the discrimination of roasted coffees, 320 (1996) 191
- A comparative study of several chemometric methods applied to the treatment of two-way kinetic-spectral data for mixture resolution, 321 (1996) 75
- Quantitative structure-property relationships for colour reagents and their colour reactions with ytterbium using regression analysis and computational neural networks, 321 (1996) 97
- EXPIRS, an expert system for generation of alternative sets of substructures, derived by infrared spectra interpretation, 321 (1996) 105
- The simulation of <sup>13</sup>C nuclear magnetic resonance spectra of dibenzofurans using multiple linear regression analysis and neural networks, 321 (1996) 127
- Determination of triazines in surface waters by membrane separation coupled on-line to a flow-injection system and partial least squares regression, 321 (1996) 147
- Investigation by experimental design and regression models of the effect of five experimental factors on ion-interaction high-performance liquid chromatographic retention, 321 (1996) 225
- Determination of active components in insecticide formulations by liquid chromatography and resolution of overlapped peaks by multivariate analysis and derivative spectrophotometry, 321 (1996) 273
- Neural networks with robust backpropagation learning algorithm, 322 (1996) 21
- Chemometric study of differential kinetic analysis by the method of proportional equations, 322 (1996) 195
- Feedback shift register sequences versus uniformly distributed random sequences for correlation chromatography, 324 (1996) 29
- Step by step filter an approach for noise reduction in the derivative UV-visible spectra, 324 (1996) 77
- Knowledge base generation for the GCdiagnosis system, 324 (1996) 85
- Multivariate evaluation of inhibition studies on an enzyme electrodes system with pesticides and mixtures of mercury and pesticides, 325 (1996) 1
- Application of the Davidon-Fletcher-Powell algorithm to the resolution of multicomponent mixtures using UV-vis spectrophotometry, 327 (1996) 145
- Mathematical modelling of potentiometric stripping analysis in mechanically mixed solutions, 329 (1996) 1
- Detection of inhomogeneities in sets of NIR spectra, 330 (1996)
- Spectrophotometric determination of Allura Red (R40) in soft drink powders using the universal calibration matrix for partial least squares multivariate method, 330 (1996) 19

- Extending the response range of an optical fibre pH sensor using an artificial neural network, 330 (1996) 31
- Theoretical treatment of the amperometric current response of multiple microelectrode arrays, 330 (1996) 139
- Comparison of optimization algorithms for piecewise linear discriminant analysis: application to Fourier transform infrared remote sensing measurements, 331 (1996) 157
- The Radial Basis Functions Partial Least Squares approach as a flexible non-linear regression technique, 331 (1996) 177
- Influence of selectivity and polyelectrolyte effects on the performance of soft-modelling and hard-modelling approaches applied to the study of acid-base equilibria of polyelectrolytes by spectrometric titrations, 331 (1996) 195
- A knowledge based advisory system for acid/base titrations in nonaqueous solvents, 332 (1996) 201
- Computational chemical analysis of chiral recognition in liquid chromatography, selectivity of N-(R)-1-(α-naphthyl)ethylamino carbonyl-(R or S)-valine and N-(S)-1-(α-naphthyl)ethylamino carbonyl-(R or S)-valine bonded aminopropyl silica gels, 332 (1996) 213
- Classification of binding sites for Al(III) in fulvic acids extracted from leaf litters and soils by synchronous fluorescence spectroscopy and multidimensional chemometric analysis, 333 (1996) 71
- An equilibrium simulator for multiphase equilibria based on the extent of reaction and Newton-Raphson method with globally convergent strategy (SEQEx2), 334 (1996) 271
- Feature selection using the Kalman filter for classification of multivariate data, 335 (1996) 11
- Simplex optimization of reaction variables in the production of cobalt(III) acetate in a bipolar packed-bed reactor, 335 (1996) 35
- Quantitative determination of polymer and mineral content in paper coatings by infrared spectroscopy. Improvements by non-linear treatments, 335 (1996) 79
- Quality control of paints: Pyrolysis-mass spectrometry and chemometrics, 336 (1996) 201
- Neural network learning to non-linear principal component analysis, 336 (1996) 209
- Critical evaluation of two F-tests for selecting the number of factors in abstract factor analysis, 337 (1997) 57
- Analysis of non-isothermal kinetic measurements, 337 (1997) 73
- Quantitative Fourier transform infrared spectroscopy of binary mixtures of fatty acid esters using partial least squares regression, 337 (1997) 191
- X-PERT: a user-friendly expert system for molecular structure elucidation by spectral methods, 337 (1997) 265
- Assessing the validity of principal component regression models in different analytical conditions, 337 (1997) 287
- Detection of bias in method comparison by regression analysis, 338 (1997) 19
- Genetic-algorithm-based wavelength selection in multicomponent spectrometric determinations by PLS: application on indomethacin and acemethacin mixture, 339 (1997) 63
- A computer program for searching the best model for describing different experimental systems, 340 (1997) 267
- Prediction of gas chromatographic retention indices of alkylbenzenes, 342 (1997) 113

Independent neural network modeling of class analogy for classification pattern recognition and optimization, 342 (1997) 223

Robust orthogonal regression for the outlier detection when comparing two series of measurement results, 344 (1997) 17

Terrigenous debris and mussel pollution – a differentiation based on trace element concentration by means of multivariate analysis, 344 (1997) 251

Genetic algorithms as a method for variable selection in multiple linear regression and partial least squares regression, with applications to pyrolysis mass spectrometry, 348 (1997) 71

Discrimination of the variety and region of origin of extra virgin olive oils using <sup>13</sup>C NMR and multivariate calibration with variable reduction, 348 (1997) 357

On mass spectrometer instrument standardization and interlaboratory calibration transfer using neural networks, 348 (1997) 511

Optical tomographic reconstruction from diffuse remittance in scattering media using partial least squares estimation, 348 (1997) 553

Correction of non-linearities in spectroscopic multivariate calibration by using transformed original variables and PLS regression, 349 (1997) 271

Application of factorial design to improve a FIA system for penicillin determination, 350 (1997) 353

On the number of observable species, observable reactions and observable fluxes in chemometric studies and the role of multi-channel integration, 351 (1997) 337

The development of the significant peak selection method using the mutual information and its completeness, 351 (1997) 387

Automation of gas chromatography instruments. Part I. Automated peak identification in the chromatograms of standard test mixtures, 354 (1997) 65

Automation of gas chromatography instruments. Part II. A knowledge-based system for performance assessment, 354 (1997) 77

Simultaneous spectrophotometric determination of mixtures of food colorants, 354 (1997) 163

Improved variable selection procedure for multivariate linear regression, 354 (1997) 225

Confidence intervals for the activation energy estimated by few experiments, 355 (1997) 175

Characterization of fatty acids composition in vegetable oils by gas chromatography and chemometrics, 358 (1998) 163

Characterization of green coffee varieties according to their metal content, 358 (1998) 177

Simultaneous determination of mixtures of acids by potentiometric titration, 367 (1998) 145

Multivariate experimental methodology for the evaluation of sample preparation techniques used in simultaneous multielemental analysis using total reflection X-ray fluorescence spectroscopy, 376 (1998) 145

Detection of nonlinearity in multivariate calibration, 376 (1998) 153
Application and comparisons of chemometric techniques for calibration modelling using electrochemical/ICP-MS data for trace elements in UHQ water and humic acid matrices, 378 (1999) 235

An automated procedure to predict the number of components in spectroscopic data, 379 (1999) 143

Notes on two competing definitions of multivariate sensitivity, 381 (1999) 103

Calibration transfer as a data reconstruction problem, 384 (1999) 193

Automatic classification of infrared spectra using a set of improved expert-based features, 388 (1999) 145

A novel peak-hopping stepwise feature selection method with application to Raman spectroscopy, 388 (1999) 251

Matching and discrimination of single human-scalp hairs by FT-IR micro-spectroscopy and chemometrics, 392 (1999) 223

Artificial neural networks and multivariate calibration for spectrophotometric differential kinetic determinations of food antioxidants, 396 (1999) 221

Hydrolysis of hemoglobin surveyed by infrared spectroscopy . II. Progress predicted by chemometrics, 396 (1999) 241

Chemometrics: the issues of measurement and modelling, 400 (1999) 399

### Chemometry

Spectroscopic prediction of nonlinear properties by principal component regression, 348 (1997) 345

# Cherenkov counting

Possibility of rapid determination of low-level <sup>90</sup>Sr activity by combination of extraction chromatography separation and Cherenkov counting, 399 (1999) 237

#### Chernobyl

Microwave-assisted digestion of soils for the determination of <sup>90</sup>Sr, 355 (1997) 283

# Chicken antiserum

Development of an enzyme-linked immunosorbent assay for benalaxyl and its application to the analysis of water and wine, 392 (1999) 85

# Chicken plasma

Enzyme immunoassay using peroxidase as a label and a dip-strip test for monitoring residual bacitracin in chicken plasma, 346 (1997) 207

# Chinese hamster ovary (CHO) cells

Mammalian cells as biomonitors of UV-exposure, 387 (1999) 281

# Chinese herbal preparations

Determination of five major anthraquinoids in Chinese herbal preparations by micellar electrokinetic capillary electrophoresis, 309 (1995) 361

# Chiral drugs

Surface-enhanced Raman spectrometry of chiral  $\beta$ -blocker drugs on colloidal silver, 335 (1996) 87

# Chiral Edman degradation

Discrimination of D/L-amino acid in peptide sequence based on fluorescent chiral derivatization by reversed-phase liquid chromatography, 352 (1997) 357

# Chiral fluorescence labeling reagent

Enantiometric separation of di- and tri-peptides with chiral fluorescence labeling reagents by liquid chromatography, 314 (1995) 169

# Chiral HPLC

Chromatographic methods for the separation of enantiomers and epimers of β-alkyl amino acids and peptides containing them, 352 (1997) 335

# Chiral recognition

- Enantiomeric separation of dansylamino acids by capillary zone electrophoresis with selectively methylated γ-cyclodextrin derivatives, 316 (1995) 121
- Computational chemical analysis of chiral recognition in liquid chromatography, selectivity of N-(R)-1-(α-naphthyl)ethylamino carbonyl-(R or S)-valine and N-(S)-1-(α-naphthyl)ethylamino carbonyl-(R or S)-valine bonded aminopropyl silica gels, 332 (1996) 213
- Molecularly imprinted polymeric membranes involving tetrapeptide EQKL derivatives as chiral-recognition sites toward amino acids, 365 (1998) 59

# Chiral separation

- Combination of flow injection with capillary electrophoresis. Part 2.
  Chiral separation of intermediate enantiomers in chloramphenicol synthesis, 353 (1997) 199
- Chiral separation of several naphthalenesulfonylamino acids by capillary zone electrophoresis with selectively methylated cyclodextrin derivatives, 357 (1997) 177
- Chiral separation of several amino acid derivatives by capillary zone electrophoresis with selectively acetylated β-cyclodextrin derivatives, 373 (1998) 47
- Enantiomeric separation of promethazine and D.L-α-amino-β-[4-(1,2-dihydro-2-oxo-quinoline)] propionic acid drugs by capillary zone electrophoresis using albumin as chiral selectors, 392 (1999) 175

# Chiral TLC

Chromatographic methods for the separation of enantiomers and epimers of β-alkyl amino acids and peptides containing them, 352 (1997) 335

# Chitin

- Influence of the ratio copper(II) to ligand concentrations and the nature of entering and leaving ligands on the lability of copper(II) complexes, 330 (1996) 273
- Additional evidence of the operational character of the lability of complexes of copper(II) with simple organic ligands, 333 (1996) 97
- Voltammetric detection of MoO<sup>2-</sup><sub>4</sub> at a modified carbon paste electrode containing chitin, 353 (1997) 301

# Chitosan

- Evaluation of gluteraldehyde-modified chitosan as a matrix for hydrophobic interaction chromatography, 313 (1995) 253
- Selective adsorbents for germanium(IV) derived from chitosan, 343 (1997) 275
- Selective separation of germanium(IV) by 2,3-dihydroxypropyl chitosan resin, 371 (1998) 187
- Adsorption behavior of cobalt(II) on chitosan and its determination by tungsten metal furnace atomic absorption spectrometry, 378 (1999) 279

Coprecipitation of ruthenium with chitosan and its determination by graphite furnace atomic absorption spectrometry, 398 (1999) 289

#### Chitosan beads

Fluorometric determination of microamounts of hydrogen peroxide with an immobilized enzyme prepared by coupling horseradish peroxidase to chitosan beads, 374 (1998) 191

# Chloramine

Use of a peroxidase reactor in flow injection analysis for the determination of chloramine and the inhibition kinetics, 390 (1999) 141

#### Chloramine T

Spectrophotometric determination of trace bromide by its catalytic effect on the tetrabase-chloramine T reaction, 319 (1996) 199

#### Chloramphenicol (CAP)

- Parallel incident spectroelectrochemistry study of chloramphenicol, 363 (1998) 67
- Determination and separation of chloramphenicol and its hydrolysate in eye-drops by capillary zone electrophoresis with amperometric detection, 394 (1999) 309

# Chloranilic acid

Simultaneous adsorptive stripping voltammetric determination of molybdenum(VI), uranium(VI), vanadium(V), and antimony(III), 394 (1999) 81

# Chlordiazepoxide

Minimization of plasma interferences by liquid chromatography with electrochemical detection after ultraviolet irradiation using chlordiazepoxide as a model substance, 305 (1995) 318

# Chlorella

Whole-cell biosensor for determination of volatile organic compounds in the form of aerosols, 364 (1998) 153

# Chlorella marina

Determination of stability constants of labile heterogeneous complexes using differential pulse polarography and anodic stripping voltammetry, 384 (1999) 17

# Chloride

- Comparison of deuterium arc and Smith-Hieftje background correction for graphite furnace molecular absorption spectrometry of fluoride and chloride, 315 (1995) 167
- Search for chemical separation of element 106 homologues in HF and HF-HCl media, 332 (1996) 257
- Flow analysis with accuracy assessment, 350 (1997) 31
- Non-linearity with metal-metal ligand complex reactions in flow injection systems. Metal-thiocyanate reactions, 350 (1997) 37
- Evaluation of the dialysing yield of membranes with different composition. Application to the analysis of chloride in fruit juices by flow injection, 353 (1997) 245
- Standard addition method in FIA. Comparison between different assemblies, 379 (1999) 89
- Overcoming the pH dependency of optical sensors: a pH-independent chloride sensor based on co-extraction, 398 (1999) 137

# Chloride complexes

Simultaneous determination of chloride complexes of Pt(IV) and Pd(II) by capillary zone electrophoresis with direct UV absorbance detection, 319 (1996) 191

# Chloride determination

Determination of chloride by flow injection spectrophotometry with membrane reagent introduction, 366 (1998) 147

Real-time simplex optimization of flow-injection systems for chemical analysis, 366 (1998) 313

Continuous sample recirculation in an opened-loop multicommutated flow system, 377 (1998) 103

# Chloride interference

Use of hydrofluoric acid to decrease the background signal caused by sodium chloride in electrothermal atomic absorption spectrometry, 396 (1999) 279

# Chloride interference discrimination

Flow injection discrimination of the chloride interference with Cu(II) electrode function of chalcogenide based solid-state copper ion-selective electrodes, 362 (1998) 221

# Chloride ion interference

Reduction of chloride ion interference in chemical oxygen demand (COD) determinations using bismuth-based adsorbents, 357 (1997) 167

#### Chloride media

Solvent extraction of yttrium from chloride media by di(2-ethylhexyl)phosphoric acid in kerosene. Speciation studies and gel formation, 327 (1996) 267

# Chloride sensor

Energy transfer-based lifetime sensing of chloride using a luminescent transition metal complex, 364 (1998) 143

### Chloride-selectivity

Response mechanism of anion-selective electrodes based on mercury organic compounds as ionophores, 327 (1996) 17

# Chlorinated pesticides

Efficiency of the microwave-assisted extraction of hydrocarbons and pesticides from sediments, 344 (1997) 241

### Chlorine

Stable chlorine-isotope analysis of rock samples: New aspects of chlorine extraction, 362 (1998) 261

### Chlorine dioxide

Determination of chlorine dioxide using 4-aminoantipyrine and phenol by flow injection analysis, 341 (1997) 257

# 2-chloro-2',6'-diethylacetanilide

An enzyme immunoassay for mutagenic metabolites of the herbicide alachlor, 376 (1998) 103

# Chlorocomplex

Potentiometric flow injection determination of cadmium in waste waters including in-line ion-exchange separation/concentration, 366 (1998) 155

#### Chloro-fluoride

Search for chemical separation of element 106 homologues in HF and HF-HCl media, 332 (1996) 257

Behaviour of Zr, Hf, Nb, Ta and Pa on macroporous anion exchanger in chloride–fluoride media, 374 (1998) 149

# Chlorofluoro compounds

Ozone chemiluminescence in environmental analysis, 303 (1995) 127

#### Chloroform

Adsorptive pulse polarographic determination of uranium(VI) oxinate in chloroform and its use for the analysis of uranium mineral ores, 328 (1996) 33

Multicomponent gas analysis of a mixture of chloroform, octane and toluene using a piezoelectric quartz crystal sensor array, 393 (1999) 67

# Chlorogenic acid

The determination of chlorogenic acid in cigarettes by inhibited chemiluminescence analysis, 351 (1997) 241

# Chloroparaffin (CHP)

Determination of pesticides in water using ATR-FTIR spectroscopy on PVC/chloroparaffin coatings, 334 (1996) 85

# Chloroperoxidase

An electrocatalytic approach for the measurement of chlorophenols, 327 (1996) 235

# Chlorophenols

Possibilities of simple steam distillation in combination with capillary isotachophoresis for the determination of chlorophenols in river and industrial waste waters, 302 (1995) 39

Preconcentration and flow-injection multivariate determination of priority pollutant chlorophenols, 308 (1995) 238

A biosensor as warning device for the detection of cyanide, chlorophenols, atrazine and carbamate pesticides, 311 (1995) 255

Selection of calibration mixtures and wavelengths for different multivariate calibration methods, 313 (1995) 93

An electrocatalytic approach for the measurement of chlorophenols, 327 (1996) 235

Use of cobalt(II) phthalocyanine to improve the sensitivity and stability of glassy carbon electrodes for the detection of cresols, chlorophenols and phenol, 354 (1997) 307

Matrix effect modelling in multivariate determination of priority pollutant chlorophenols in urine samples, 381 (1999) 93

Multi- and univariate interpretation of the interlaboratory validation of PrEN 12673; GC determination of chlorophenols in water, 388 (1999) 119

# Chlorophyll a

Light-independent isomerization of bacteriochlorophyll g to chlorophyll a catalyzed by weak acid in vitro, 365 (1998) 199

Modeling bio-geochemical interactions in the surface waters of the Gulf of Trieste by three-way principal component analysis (PCA), 398 (1999) 227

# Chloroplasts

Entrapment of chloroplasts and thylakoids in polyvinylalcohol-SbQ.
Optimization of membrane preparation and storage conditions, 311 (1995) 437

# 4-[(5-chloro-2-pyridyl)azo]-1,3-diaminobenzene (5-Cl-PADAB)

Spectrophotometry of nucleic acids by their effect on the complex of cobalt(II) with 4-[(5-chloro-2-pyridyl)azo]-1,3-diaminobenzene, 345 (1997) 235

#### Chlorothalonil

Resolution of overlapping peaks in HPLC with diode array detection by application of partial least squares calibration to cross-sections of spectrochromatograms, 348 (1997) 177

# Chlorotriazine group

Electrochemical investigations of reactive dyes; cathodic stripping voltammetric determination of anthraquinone-based chlorotriazine dyes at a hanging mercury drop electrode, 349 (1997) 101

# Chlorotriazines

Electrochemical investigations of reactive dyes; polarographic determination of anthraquinone-based chlorotriazine dyes, 315 (1995) 41

# Chloroxine and chlorquinaldol

Spectrofluorimetric flow-injection method for the successive determination of chloroxine and chlorquinaldol in pharmaceutical preparations, 326 (1996) 41

# Chlorpheniramine

Preparation and application of chlorpheniramine ion-selective piezoelectric sensor based on selective adsorption, 395 (1999)

# Chlorpromazine

Second derivative spectrophotometric determination of partition coefficients of chlorpromazine and promazine between lecithin bilayer vesicles and water, 304 (1995) 101

Kinetic spectrophotometric determination of traces of tungsten(VI) by the catalytic reaction of chlorpromazine with hydrogen peroxide. A mechanistic study, 312 (1995) 179

Kinetic and mechanistic study of the chlorpromazine-hydrogen peroxide reaction for the catalytic spectrophotometric determination of iodide, 320 (1996) 217

Kinetic-mechanistic study of the chlorpromazine-hydrogen peroxide reaction catalyzed by molybdenum(VI) and tungsten(VI), and their differential determination, 349 (1997) 43

Flow injection determination of chlorpromazine by inhibition of glutamate dehydrogenase, 387 (1999) 47

# Chlorpromazine-H2O2 reaction

Kinetic and mechanistic study of the chlorpromazine-hydrogen peroxide reaction for the catalytic spectrophotometric determination of iodide, 320 (1996) 217

# Chlorpyrifos

Development of immunoassays for the analysis of chlorpyrifos and its major metabolite 3,5,6-trichloro-2-pyridinol in the aquatic environment, 311 (1995) 341 Evaluation of analytical methods for determining pesticides in baby food, 399 (1999) 135

# Cholelithiasis

Electrophoretic analysis of proteins in bile, 383 (1999) 185

#### Cholesterol

Chemiluminescent enzymatic assay for cholesterol in serum using lucigenin, 310 (1995) 347

Thin film bienzyme amperometric biosensors based on polymeric redox mediators with electrostatic bipolar protecting layer, 311 (1995) 15

Improvement of the analytical characteristics of an enzyme electrode for free and total cholesterol via laponite clay additives, 317 (1995) 275

Amperometric determination of cholesterol in serum with use of a renewable surface peroxidase electrode, 318 (1995) 89

Analysis of free-electron laser-induced infrared multiphoton dissociation for cholesterol ester, 365 (1998) 193

Application of electrophoretic techniques to the diagnosis of disorders of lipoprotein metabolism. Examples at the levels of lipoproteins and apolipoproteins, 383 (1999) 169

#### Cholesterol biosensor

In situ preparation of a cholesterol biosensor: entrapment of cholesterol oxidase in an overoxidized polypyrrole film electrodeposited in a flow system. Determination of total cholesterol in serum, 385 (1999) 213

### Cholesterol determination

Liquid chromatography-Fourier transform infrared spectrometric determination of cholesterol in animal greases, 354 (1997) 97 Microwave-assisted saponification of animal greases for cholesterol determination, 371 (1998) 297

# Cholesterol ester hydrolase

Amperometric determination of cholesterol in serum with use of a renewable surface peroxidase electrode, 318 (1995) 89

# Cholesterol esterase

Improvement of the analytical characteristics of an enzyme electrode for free and total cholesterol via laponite clay additives, 317 (1995) 275

# Cholesterol oxidase

Improvement of the analytical characteristics of an enzyme electrode for free and total cholesterol via laponite clay additives, 317 (1995) 275

Amperometric determination of cholesterol in serum with use of a renewable surface peroxidase electrode, 318 (1995) 89

# Cholesterol oxidase entrapment

In situ preparation of a cholesterol biosensor: entrapment of cholesterol oxidase in an overoxidized polypyrrole film electrodeposited in a flow system. Determination of total cholesterol in serum, 385 (1999) 213

### Cholin

Optimization of amperometric microsensors for monitoring choline in the extracellular fluid of brain tissue, 307 (1995) 291

- A microplate technique for phospholipase D activity determination, 315 (1995) 109
- Determination of acetylcholine and choline with platinum-black ultramicroarray electrodes using liquid chromatography with a post-column enzyme reactor, 318 (1996) 167
- Enzyme modified amperometric sensors for choline and acetylcholine with tetrathiafulvalene tetracyanoquinodimethane as the electron-transfer mediator, 341 (1997) 43
- Peroxyoxalate chemiluminescence in aqueous solutions: Coupling of immobilized enzyme reactors and 1,1'-oxalyldiimidazole chemiluminescence reaction to flow-injection analysis and liquid chromatographic systems, 357 (1997) 111
- Determination of choline-containing phospholipids in serum with a fiber-optic biosensor, 374 (1998) 19

#### Cholinesterase

- Immobilized enzyme modulator microassay (IEMMA) for the detection of pesticide in fresh produce, 329 (1996) 297
- Affinity enzymometric assay for detection of organophosphorus compounds, 357 (1997) 13
- Amperometric flow-through biosensor for the determination of cholinesterase inhibitors, 385 (1999) 13

# Cholinesterase assay

Determination of cholinesterase in blood serum using a benzoateselective membrane electrode made with heptyl-4-trifluoroacetylbenzoate neutral carrier, 321 (1996) 21

# Cholinesterase immobilization

Determination of organophosphorus and carbamate pesticides using a biosensor based on a polishable, 7,7,8,8-tetracyanoquinodimethane-modified, graphite-epoxy biocomposite, 337 (1997) 305

# Cholinesterase-based biosensor

- Determination of organophosphorus and carbamate pesticides using a biosensor based on a polishable, 7,7,8,8-tetracyanoquinodimethane-modified, graphite-epoxy biocomposite, 337 (1997)
- Evaluation of a highly sensitive amperometric biosensor with low cholinesterase charge immobilized on a chemically modified carbon paste electrode for trace determination of carbamates in fruit, vegetable and water samples, 399 (1999) 37

# Chondritic meteorite

Precise determination of rare earth elements, thorium and uranium in chondritic meteorites by inductively coupled plasma mass spectrometry – a comparative study with radiochemical neutron activation analysis, 338 (1997) 237

# **Chopped excitation**

Prediction of the calibration curves for the analysis of high absorbances using mode-mismatched dual-beam thermal lens spectrometry with chopped continuous wave laser excitation, 322 (1996) 117

# Chromate

A ternary complex system for the reversed-phase chromatography of chromate, 317 (1995) 189

- Interference from chromate, germanate, tungstate and vanadate when determining phosphate in aqueous solution by the phosphoantimonylmolybdenum blue method, 358 (1998) 245
- Determination of sulphide in effluent streams using a solid-phase lead(II) chromate reactor incorporated into a flow-injection system, 369 (1998) 157

# Chromaticity characteristics

Diffuse reflection spectroscopy of indium sorbates with immobilized heterocyclic azo compounds, 364 (1998) 235

# Chromaticity coordinates

Comparison of CIE chromaticity values, 380 (1999) 285

# Chromatogram quality estimation

Application of the pattern-recognition method for modelling expert estimation of chromatogram quality, 369 (1998) 47

# Chromatographic probes

Selective purification of synthetic proteins by the use of FMOC- and biotin-based reversible chromatographic probes, 352 (1997) 375

# Chromatographic separation

Possibility of rapid determination of low-level <sup>90</sup>Sr activity by combination of extraction chromatography separation and Cherenkov counting, 399 (1999) 237

# Chromatography

- Verification of the extended statistical model of overlap: application to gas chromatograms containing variable peak densities, 302 (1995) 133
- Sensitivity enhancement in the determination of silicate by ionexclusion chromatography using luminol chemiluminescence detection, 302 (1995) 173
- Fluorescence characterization of acid-base interaction and mobility at chromatographic interfaces, 303 (1995) 17
- Determination of phthalate-induced rat liver cytochrome P-450 IVA1 by a fluorimetric enzymatic assay and by chemiluminescence detection on Western blots, 303 (1995) 99
- Multifunctional separation with polyamine-bonded resin, 303
- Retention time shift adjustments of two-way chromatograms using Bessel's inequality, 304 (1995) 57
- Detection of effects of ozone on birch, Betula pendula Roth., by chemometrical evaluation of concentrations of lipid components in leaves, 304 (1995) 209
- Thermodynamic investigation of sample retention mechanism in ion-exclusion chromatography with inclusion compound in the mobile phase, 306 (1995) 267
- A low cost, open and flexible on-line data acquisition system for instrumental chromatography, 306 (1995) 285
- Mathematical modelling of flow-injection systems, 308 (1995) 36Resolution of hidden minor peaks in multidetection chromatographyby estimation of a single parameter in a 2-D transformationmatrix, 309 (1995) 123
- Separation and preconcentration of actinides by extraction chromatography using a supported liquid anion exchanger: application to the characterization of high-level nuclear waste solutions, 310 (1995) 63

- Development of an improved on-line chromatographic monitor with new methods for environmental and process control, 310 (1995) 79
- Sulfite oxidation at a platinum glassy carbon electrode. Determination of sulfite by ion exclusion chromatography with amperometric detection, 311 (1995) 199
- Validation of commercially available ELISA microtiter plates for triazines in water samples, 311 (1995) 331
- Extension of the bioautograph technique for multiresidue determination of fungicide residues in plants and water, 311 (1995) 473
- Simulation of chromatographic peaks by simple functions, 312 (1995) 263
- Monitoring of enzymatic hydrolysis of ivory nut mannan using online microdialysis sampling and anion-exchange chromatography with integrated pulsed electrochemical detection, 313 (1995) 15
- Determination of flavonoids and alkaloids in the scute-coptis herb couple by capillary electrophoresis, 313 (1995) 113
- Evaluation of gluteraldehyde-modified chitosan as a matrix for hydrophobic interaction chromatography, 313 (1995) 253
- Isolation of polybutenylsuccinimide-type dispersant from monograde and multigrade lubricating oils by classical liquid-adsorption chromatography on a Florisil column, 314 (1995) 161
- Immobilized soft-metal affinity system for amino acids based on an 8-hydroxyquinoline-Pd(II) complex; characterization using glycine as a model, 315 (1995) 339
- Interactive rank annihilation: a graphic approach to quantification in grey multicomponent systems, 316 (1995) 225
- Numerical simulation of crude oil behaviour from chromatographic data, 317 (1995) 107
- Effect of aliphatic alcohols as mobile phase modifiers on separation of phenylurea and phenoxyalkyl acid herbicides by micellar electrokinetic capillary chromatography, 317 (1995) 181
- A ternary complex system for the reversed-phase chromatography of chromate, 317 (1995) 189
- Properties of local rank map vectors from multidetection chromatograms, 318 (1996) 137
- The uncertainty of carbon dioxide determination in gaseous mixtures, 318 (1996) 327
- Determination of formaldehyde in frozen fish with formaldehyde dehydrogenase using a flow injection system with an incorporated gel-filtration chromatography column, 320 (1996) 155
- Characterization of engine motor oils dispersants of the polybutenylsuccinimide type by saponification, methylation and size exclusion chromatography, 322 (1996) 31
- Pulsed electrochemical detection at gold electrodes applied to monoamines and diamines following their chromatographic separation, 322 (1996) 55
- Feedback shift register sequences versus uniformly distributed random sequences for correlation chromatography, 324 (1996)
- Voltammetry with programmed baseline compensation, 324 (1996)
- A simple alternative determination of the formation constant for the inclusion complex between rutin and  $\beta$ -cyclodextrin, 329 (1996) 311

- Performance of two immunoassays for the determination of atrazine in sea water samples as compared with on-line solid phase extraction-liquid chromatography-diode array detection, 330 (1996) 41
- Separation and determination of trace inorganic germanium in βcarboxyethylgermanium sesquioxide by filtration chromatography and hydride generation-graphite furnace atomic absorption spectrometry, 330 (1996) 53
- Determination of inorganic anions in water samples by ionexchange chromatography with chemiluminescence detection based on the neutralization reaction of nitric acid and potassium hydroxide, 331 (1996) 239
- A new method for extracting and purifying lead from difficult matrices for isotopic analysis, 332 (1996) 15
- A chromatographic method to characterize copper-binding ligands, 332 (1996) 241
- Search for chemical separation of element 106 homologues in HF and HF-HCl media, 332 (1996) 257
- The quality of quantitation in chromatography Part I. Information theoretical considerations, 333 (1996) 3
- The quality of quantitation in chromatography Part II. Optimizing the quantitative analysis, 333 (1996) 11
- Novel separation of inorganic anions using a charged complex ionexchanger, 334 (1996) 1
- Determination of platinum and gold in anticancer and antiarthritic drugs and metabolites, 334 (1996) 5
- Determination of componentwise chromatographic elution regions using singular value evolving profiles, 334 (1996) 15
- Characterization of polybutadiene-coated zirconia and comparison to conventional bonded phases by use of linear solvation energy relationships, 334 (1996) 239
- Immunoaffinity column chromatography against forskolin using an anti-forskolin monoclonal antibody and its application, 335 (1996) 63
- Molecular size distribution and spectroscopic properties of aquatic humic substances, 337 (1997) 133
- Chelation ion chromatography as a technique for trace elemental analysis in complex matrix samples, 337 (1997) 173
- Sequential separation of light rare-earth elements, thorium and uranium by miniaturized extraction chromatography: Application to isotopic analyses of silicate rocks, 339 (1997) 79
- A reversed-phase high performance liquid chromatography method using solid phase extraction to quantitate thalidomide in human serum. 339 (1997) 91
- Preconcentration and separation of palladium(II) and platinum(IV) on a dithizone anchored poly(vinylpyridine)-based chelating resin, 341 (1997) 217
- A novel strategy for systematic optimization of micellar electrokinetic chromatography separations, 342 (1997) 133
- Determination of oligoelements in wheat, 343 (1997) 241
- Assessment of new constraints applied to the alternating least squares method, 346 (1997) 307
- Prediction of retention behavior of ferrocene derivatives in supercritical fluid chromatography, 349 (1997) 239
- The development of the significant peak selection method using the mutual information and its completeness, 351 (1997) 387

Stable chlorine-isotope analysis of rock samples: New aspects of chlorine extraction, 362 (1998) 261

Hollow fiber membrane chromatography: A novel analytical system for trace metal separation, 369 (1998) 17

Detection of active methylene compounds having cyano and carbonyl groups with chemiluminescent reaction using tris(2,2'bipyridine)ruthenium(III) prepared by on-line electrochemical oxidation, 378 (1999) 43

Chromatographic behaviour of ionizable compounds in liquid chromatography. Part 1. pH scale,  $pK_a$  and  $pH_S$  values for standard buffers in tetrahydrofuran–water, 389 (1999) 31

Window target-testing factor analysis: theory and application to the chromatographic analysis of complex mixtures with multiwavelength fluorescence detection, 389 (1999) 95

Strategy for ruggedness tests in chromatographic method validation, 391 (1999) 187

An iterative method for solving inverse problems arising from dispersion in high pressure size exclusion chromatography, 392 (1999) 183

A dual radiotracer speciation technique with emphasis on probing of artefacts: a case study for technetium and spinach (Spinacia oleracea L.), 394 (1999) 271

Biochemical speciation analysis by hyphenated techniques, 400 (1999) 321

# Chromatography-postcolumn

Direct application of an enzyme-linked immunosorbent assay method for carbaryl determination in fruits and vegetables. Comparison with a liquid chromatography–postcolumn reaction fluorescence detection method, 387 (1999) 245

### Chromium

Determination of chromium and nickel in human blood by means of inductively coupled plasma mass spectrometry, 306 (1995) 35

Simultaneous multielement determination in complex matrices using frequency-modulated electrothermal atomic absorption spectrometry, 310 (1995) 181

Separation of microgram quantities of Cr(III) and Cr(VI) in aqueous solutions and determination by energy dispersive X-ray fluorescence spectrometry, 315 (1995) 365

Chromium(III) binding abilities of humic acids, 317 (1995) 195Spectrophotometric determination of chromium(VI) by extraction of protriptylinium dichromate, 319 (1996) 205

Thermal lens spectrometric determination of hexavalent chromium, 330 (1996) 245

On-line sorption preconcentration of chromium(VI) and its determination by flame atomic absorption spectrometry, 354 (1997) 151

Simultaneous measurements of trace chromium and uranium using mixed ligand adsorptive stripping analysis, 354 (1997) 275

Spectrophotometric determination of chromium(VI) by extraction of the dichromate anion into propylene carbonate, 356 (1997)

Electrothermal atomic absorption spectrometric determination of molybdenum, aluminium, chromium and manganese in milk, 356 (1997) 267

Introduction of hydrogen peroxide as an oxidant in flow injection analysis: speciation of Cr(III) and Cr(VI), 361 (1998) 125

Speciative determination of chromium(VI) and chromium(III) using flow-injection on-line preconcentration and flame atomicabsorption spectrometric detection, 369 (1998) 69

#### Chromium (VI)

Voltammetric determination of Cr(VI) in a flow system in the presence of diethylenetriaminepentaacetic acid (DTPA) following its deposition in the metallic state, 387 (1999) 97

# Chromium determination

Analysis and storage of samples for chromium determination in seawater, 356 (1997) 35

Determination of chromium in airborne particulate matter by high resolution and laser ablation inductively coupled plasma mass spectrometry, 389 (1999) 257

# Chromium hexacyanoferrate

Chromium hexacyanoferrate based glucose biosensor, 381 (1999) 183

#### Chromium plating mist

Determination of soluble chromium(VI) in chromium plating mist by X-ray spectrometry, 334 (1996) 331

# Chromium speciation

Speciation of chromium in aquatic samples by coupled column ion chromatography-inductively coupled plasma-mass spectrometry, 318 (1996) 335

Speciation of chromium using thermospray nebulization as sample introduction into inductively coupled plasma mass spectrometry, 322 (1996). I

On-line separation and preconcentration of chromium species in seawater, 325 (1996) 185

Determination of the speciation of chromium with an automated two-column ion-exchange system, 326 (1996) 85

Improvement on simultaneous determination of chromium species in aqueous solution by ion chromatography and chemiluminescence detection, 354 (1997) 107

Speciation of chromium by solid-phase extraction coupled to reversed-phase liquid chromatography with UV detection, 364 (1998) 31

Rapid determination of chemical oxygen demand by a semi-automated method based on microwave sample digestion, chromium(VI) organic solvent extraction and flame atomic absorption spectrometry, 372 (1998) 399

# Chromium species

Preconcentration and speciation of chromium by the determination of total chromium and chromium(III) in natural waters by flame atomic absorption spectrometry with a chelating ion-exchange flow injection system, 327 (1996) 37

# Chromium(VI)

Chemiluminescence flow system for the monitoring of chromium(VI) in water, 318 (1995) 71

New separation method for chromium(VI) in water by collection of its ternary complex on an organic solvent-soluble membrane filter, 332 (1996) 307

Determination of soluble chromium(VI) in chromium plating mist by X-ray spectrometry, 334 (1996) 331 Direct spectrophotometric determination of chromium by microwave-oven induced flow-injection analysis, 374 (1998) 61

# Chromium(VI) preconcentration

On-line separation and preconcentration of chromium species in seawater, 325 (1996) 185

### Chromogenic 14-crown-4 ether

Synthesis and cation-extraction study of chromogenic 14-crown-4 derivatives for spectrophotometric determination of lithium, 375 (1998) 81

# Chromogenic ligands

Fluorescent ligands for optical sensing of alcohols: synthesis and characterisation of p-N,N-dialkylamino-trifluoroacetylstilbenes, 344 (1997) 215

Novel fluorescent sensor membranes for alcohols based on p-N,N-dioctylamino-4'-trifluoroacetylstilbene, 351 (1997) 189

#### Chromogenic substrates

Comparison of chemiluminescent and chromogenic substrates of alkaline phosphatase in a direct immunoassay for plasma estradiol, 303 (1995) 143

### Chromogens

Spectrophotometric determination of uranium in natural water with the new chromogenic reagent p-carboxychlorophosphonazo, 314 (1995) 95

# Chromoionophores

Chromoionophores derived from a coumarin linked to monoaza- and diaza-crown ethers: formation of divalent 3d metal complexes, 302 (1995) 341

# Chromophore complexes

Equilibrium modelling of interferences in the visible spectrophotometric determination of aluminium(III): comparison of the chromophores chrome azurol S, eriochrome cyanine R and pyrocatechol violet, and stability constants for eriochrome cyanine R-aluminium complexes, 319 (1996) 305

### Chronoamperometry

Glucose determination in blood samples using flow injection analysis and an amperometric biosensor based on glucose oxidase immobilized on hexacyanoferrate modified nickel electrode, 350 (1997) 91

Carbon felt composite electrodes and their use in electrochemical sensing: a biosensor based on alcohol dehydrogenase, 358 (1998) 15

# Chronopotentiometry

Potentiometric stripping analysis of bioactive peptides at carbon electrodes down to subnanomolar concentrations, 332 (1996) 49

Determination of trace adenine, adenosine and adenosine monophosphate by 2nd-order derivative adsorption chronopotentiometry, 347 (1997) 263

### Chrysene

Determination of polycyclic aromatic hydrocarbons by spectrofluorimetry, 388 (1999) 27

# α-chymotrypsin

Stimuli-sensitive hydrogel material for biosensor-chemical trigger, 347 (1997) 27

# **CIE** chromaticity coordinates

Comparison of CIE chromaticity values, 380 (1999) 285

# Cigarettes

The determination of chlorogenic acid in cigarettes by inhibited chemiluminescence analysis, 351 (1997) 241

Spectrophotometric determination of nicotine, 379 (1999) 75

### Cinitapride

Polarographic determination of cisapride and cinitapride, 368 (1998) 175

#### Cinnamon

Simultaneous micro steam distillation/solvent extraction for the isolation of semivolatile flavor compounds from cinnamon and their separation by series coupled-column gas chromatography, 302 (1995) 147

#### Circadian rhythm

Sensitive assay for melatonin in human serum by liquid chromatography, 316 (1995) 377

#### Circular dichroism

Measurement of enantiomeric purity by ratio chromatograms with a photometric detector using quartz plates as a multiple retarder, 396 (1999) 125

# Circular dichroism spectroscopy

Complexation of cadmium by the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: study by differential pulse polarography and circular dichroism spectroscopy with multivariate curve resolution analysis, 390 (1999) 15

### Cisapride

Polarographic determination of cisapride and cinitapride, 368 (1998) 175

# cis-Diamminedichloroplatinum(II)

Studies of platinum(II) compounds in aqueous solution. Part 2. cis-Pt(NH<sub>3</sub>)<sub>2</sub>Cl<sub>2</sub>, 358 (1998) 61

### Citrot

Simultaneous quantitation of citrate and isocitrate in citrus juice by a flow-injection method based on the use of enzyme reactors, 321 (1996) 157

# Citrate lyase

Reusable solid phase immunoassay for the detection of citrate lyase, 320 (1996) 77

### Citrate-based buffers

Decomplexation of aluminium-fluoride complexes by citrate-based buffers as a function of pH, aluminium and fluoride concentrations, 368 (1998) 265

### Citric acid

Flow injection conductimetric or spectrophotometric analysis for acidity in fruit juice, 363 (1998) 199 Flow-injection spectrophotometric determination of citric acid in beverages based on a photochemical reaction, 366 (1998) 231

# Citric acid as activator

Simultaneous flow-injection determination of iron(II) and total iron by micelle enhanced luminol chemiluminescence, 376 (1998) 247

# <sup>13</sup>C-labeling

Direct determination of diastereomeric <sup>13</sup>C-labeled ketoprofen glucuronides in human urine by nuclear magnetic resonance spectroscopy, 334 (1996) 67

#### Cladding

Oxygen detection by fluorescence quenching of tetraphenylporphyrin immobilized in the original cladding of an optical fiber, 370 (1998) 1

# Clark type oxygen sensor

Multivariate experimental methodology applied to the calibration of a Clark type oxygen sensor, 355 (1997) 43

# Clark-type gas sensor

Effects of gas flow-rates on a Clark-type oxygen gas sensor, 313 (1995) 89

# Classical least squares

Selection of calibration mixtures and wavelengths for different multivariate calibration methods, 313 (1995) 93

Quantitative multicomponent analysis of polycyclic aromatic hydrocarbons in water samples, 361 (1998) 233

### Classification

Feature selection using the Kalman filter for classification of multivariate data, 335 (1996) 11

Learning classification rules from an ion chromatography database using a genetic based classifier system, 344 (1997) 1

A computer program for ranking analytical methods according to their fitness for purpose, 360 (1998) 215

Application of fuzzy clustering and piezoelectric chemical sensor array for investigation on organic compounds, 398 (1999) 219

# Classification analysis

Characterization of wheat by four analytical parameters. A chemometric study, 331 (1996) 43

Determination of oligoelements in wheat, 343 (1997) 241

# Classification and quantification

Classification and quantification of polycyclic aromatic hydrocarbons on quartz sand particles by direct Fourier transform imaging fluorescence, 367 (1998) 1

# Classification and regression trees (CART)

Classification of pyrolysis mass spectra by fuzzy multivariate rule induction-comparison with regression, K-nearest neighbour, neural and decision-tree methods, 348 (1997) 389

### Clay

2-Mercaptobenzothiazole clay as matrix for sorption and preconcentration of some heavy metals from aqueous solution, 306 (1995) 167

# Clay minerals

Determination of traces of copper by anodic stripping voltammetry after its preconcentration via an ion-exchange route at carbon paste electrodes modified with vermiculite, 305 (1995) 176.

Sorption and determination of Hg(II) on clay modified carbon paste electrodes, 385 (1999) 91

#### Clay-modified electrode

Adsorptive potentiometric stripping analysis of dopamine on claymodified electrode, 372 (1998) 315

# Clean analytical chemistry

On-line solvent recycling: a tool for the development of clean analytical chemistry in flow injection Fourier transform infrared spectrometry. Determination of ketoprofen, 361 (1998) 253

#### Clean analytical method

A clean analytical method for the spectrophotometric determination of formetanate incorporating an on-line microwave assisted hydrolysis step, 390 (1999) 147

#### Clean-up

Automated sample clean-up procedure for organophosphorus pesticides in several aquatic organisms using normal phase liquid chromatography, 374 (1998) 215

Determination of five selenium compounds in urine by liquid chromatography with focused microwave assisted digestion and hydride generation-atomic absorption spectrometric detection, 374 (1998) 241

# Clenbuterol

Investigation of the electrochemical oxidation of clenbuterol at a porous carbon electrode, and its application to the determination of this β-agonist in bovine hair by liquid chromatography with coulometric detection, 322 (1996) 159

### Clevidipine

Illustration of important mechanisms controlling mass transfer in supercritical fluid extraction, 368 (1998) 117

### Clinical analysis

Ion sensors: current limits and new trends, 393 (1999) 11

# Clinical application

Glucose determination in blood samples using flow injection analysis and an amperometric biosensor based on glucose oxidase immobilized on hexacyanoferrate modified nickel electrode, 350 (1997) 91

# Clinical study

Development of a sensitive radioimmunoassay for the potential antimigraine drug GR151004: including cross-validation to liquid chromatography-mass spectrometry-mass spectrometry and application to pharmacokinetic studies, 334 (1996) 225

### Closed vessel

Orthogonal array design for the optimization of closed-vessel microwave digestion parameters for the determination of trace metals in sediments, 314 (1995) 121

# Clotting factor VIII

Electrophoretic analyses of clotting factor VIII concentrates, 372 (1998) 219

#### Cloud point

Use of cloud point extraction methodology for the determination of PAHs priority pollutants in water samples by high-performance liquid chromatography with fluorescence detection and wavelength programming, 330 (1996) 199

Determination of polychlorinated biphenyls by liquid chromatography following cloud-point extraction, 358 (1998) 145

Anionic surfactants in acid media: a new cloud point extraction approach for the determination of polycyclic aromatic hydrocarbons in environmental samples, 392 (1999) 29

# Cloud point preconcentration

Cloud point preconcentration and liquid chromatographic determination of aromatic amines in dyestuffs, 373 (1998) 197

#### Clozapine

Toxic interactions between clozapine and ampicillin, 319 (1996)

# Cluster analysis

A factor analysis approach to the study of the eutrophication of a shallow, temperate lake (San Daniele, North Eastern Italy), 306 (1995) 99

Variable alignment of high resolution data by cluster analysis, 310 (1995) 485

Elucidating the composition of atmospheric aerosols through the combined hierarchical, non-hierarchical and fuzzy clustering of large electron probe microanalysis data sets, 317 (1995)

Multivariate evaluation of inhibition studies on an enzyme electrodes system with pesticides and mixtures of mercury and pesticides, 325 (1996) 1

Use of cluster and principal component analysis in quantitative structure-retention relationship study, 348 (1997) 481

Clustering data using a modified integer genetic algorithm (IGA), 354 (1997) 263

# Cluster analysis by SPSS

Characterization of fatty acids and triacylglycerols in vegetable oils by gas chromatography and statistical analysis, 398 (1999) 253

# Cluster ions

Characterization of supported and unsupported transition metal compounds by liquid secondary ion mass spectrometry, 346 (1997) 223

# Clustering

Pollution of a river basin and its evolution with time studied by multivariate statistical analysis, 310 (1995) 15

# Clustering criteria

Clustering data using a modified integer genetic algorithm (IGA), 354 (1997) 263

#### CME

Design and construction of a flow system for determination of Cu(II) ions in water by means of a chemically modified carbon paste electrode, 335 (1996) 275

# CNBr-peptides

Reversed-phase chromatography of pentosidine-containing CNBr peptides from collagen, 352 (1997) 257

#### 13C-NMR

Syntheses of antigens conjugated with 3-methoxy-4-hydroxyphenylglycol by Mannich reaction for enzyme immunoassay, 365 (1998) 137

#### CO2 reduction

Modified electrode surfaces for catalytic reduction of carbon dioxide, 396 (1999) 1

#### Coal

The prediction of coal properties using compressed infrared data from osculating polynomials, 340 (1997) 233

A numerical procedure for curve fitting of noisy infrared spectra, 376 (1998) 169

Acidified subcritical water extraction of major ash-forming elements from coal, 395 (1999) 113

Sulphur group analysis in solid matrices by atmospheric pressuretemperature programmed reduction, 395 (1999) 143

# Coal fly ashes

Comparative study to evaluate the effect of different acids on the determination of germanium by hydride generation-inductively coupled plasma atomic emission spectrometry, 376 (1998) 283

# Coastal waters

Determination of dissolved manganese(II) in coastal and estuarine waters by differential pulse cathodic stripping voltammetry, 344 (1997) 175

On-line voltammetric monitoring of dissolved Cu and Ni in the Gulf of Cadiz, south-west Spain, 377 (1998) 205

### Coastal zone

pH, alkalinity and total CO<sub>2</sub> in coastal seawater by potentiometric titration with a difference derivative readout, 394 (1999) 101

# Coated capillaries

Surface deactivation in protein and peptide analysis by capillary electrophoresis, 383 (1999) 1

# Coated capillary tubes

On-line coated columns for the spectrophotometric determination of metals by continuous flow analysis, 308 (1995) 378

# Coated graphite tubes

Direct trace determination of lead in estuarine water using in situ preconcentration of lead hydride on Ir, Zr and W-coated graphite tubes, 368 (1998) 281

Selective medium reactions for the 'arsenic(III)', 'arsenic(V)', dimethylarsonic acid and monomethylarsonic acid determination in waters by hydride generation on-line electrothermal atomic absorption spectrometry with in situ preconcentration on Zr-coated graphite tubes, 374 (1998) 231

# Coated piezoelectric sensor

Piezoelectric quartz crystal humidity sensor using chemically modified nitrated polystyrene as water sorbing coating, 332 (1996) 93

# Coating antigen

A modified enzyme-linked immunosorbent assay (ELISA) for polyaromatic hydrocarbons, 399 (1999) 127

#### Coatings

High molecular weight polyarginine as a capillary coating for separation of cationic proteins by capillary electrophoresis, 307 (1995) 193

Studies with solid-state phosphorescent coatings on their sensitivity to nitrogen oxides, 310 (1995) 233

Fast Fourier transform admittance analysis method applied to thickness-shear-mode acoustic wave sensors, 353 (1997) 29

#### Cobalamins

Determination of cobalamins and cobinamides by microbore reversed-phase HPLC with spectrophotometric, ion-spray ionization MS and inductively coupled plasma MS detection, 359 (1998) 227

#### Cobalt

Evaluation of multicomponent flow-injection analysis data by use of a partial least squares calibration method, 310 (1995) 53

Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for nickel, cobalt and manganese determination by atomic absorption spectrometry, 317 (1995) 215

Speciation of vitamin B<sub>12</sub> analogues by liquid chromatography with flame atomic absorption spectrometric detection, 318 (1996) 319

Determination of 60Co in environmental water samples by a hydrous magnesium oxide filter, 318 (1996) 391

Determination of cobalt by catalytic-adsorptive differential pulse voltammetry, 320 (1996) 229

Flow injection spectrophotometric determination of ng ml<sup>-1</sup> levels of cobalt(II) using the photochemical decomposition of a cadmium(II)-water-soluble porphyrin complex, 323 (1996) 63

UV-visible spectrophotometric, adsorptive stripping voltammetric and capillary electrophoretic study of 2-(5'-bromo-2'-pyridy-lazo)-5-diethylaminophenol and its chelates with selected metal ions: application to the determination of Co(III) in vitamin B<sub>12</sub>, 323 (1996) 97

Simultaneous cathodic stripping voltammetric determination of mercury, cobalt, nickel and palladium by mixed binder carbon paste electrode containing dimethylglyoxime, 333 (1996) 119

Supercritical fluid extraction of cobalt with fluorinated and nonfluorinated β-diketones, 346 (1997) 73

A flow cell for on-line monitoring of metals in natural waters by voltammetry with a mercury drop electrode, 346 (1997) 101

Chemometric analysis of diffuse reflectance spectra of Co<sup>2+</sup>-exchanged zeolites: spectroscopic fingerprinting of coordination environments, 348 (1997) 267

Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165 Use of cobalt(II) phthalocyanine to improve the sensitivity and stability of glassy carbon electrodes for the detection of cresols, chlorophenols and phenol, 354 (1997) 307

Complex formation of the new reagent 5-(6-methoxy-2-benzothiazoleazo)-8-aminoquinoline with cobalt and nickel for their sensitive spectrophotometric detection, 391 (1999) 365

1,10-Phenanthroline as a complexing agent for on-line sorbent extraction/preconcentration for flow injection-flame atomic absorption spectrometry, 392 (1999) 283

Effect of the competition of copper and cobalt on the lability of Ni(II)-organic ligand complexes. Part I. In model solutions containing Ni(II) and a well-characterized fulvic acid, 395 (1999) 309

# Cobalt and nickel determination

Determination of Co and Ni in soils and river sediments by electrothermal atomic absorption spectrometry with slurry sampling, 355 (1997) 277

# Cobalt in biological samples

Flame atomic absorption spectrometric determination of cobalt in biological materials using a flow-injection system with on-line preconcentration by ion-pair adsorption, 316 (1995) 329

# Cobalt phthalocyanine

Determination of pharmaceutical thiols by liquid chromatography with electrochemical detection: Use of an electrode with a conductive carbon cement matrix, chemically modified with cobalt phthalocyanine, 332 (1996) 249

# Cobalt wire electrode

Direct determination of phosphate in soil extracts by potentiometric flow injection using a cobalt wire electrode, 363 (1998) 191

### Cohalt(II)

Spectrophotometry of nucleic acids by their effect on the complex of cobalt(II) with 4-[(5-chloro-2-pyridyl)azo]-1,3-diaminobenzene, 345 (1997) 235

Spectrophotometric determination of cobalt by extraction of benzyltributylammonium tetrathiocyanatocobaltate(II), 355 (1997) 163

Simultaneous determination of cobalt(II) and Ni(II) in water and soil samples with sequential injection analysis, 366 (1998) 177

Adsorption behavior of cobalt(II) on chitosan and its determination by tungsten metal furnace atomic absorption spectrometry, 378 (1999) 279

# Cobalt(II) and copper(II) complexes

Evaluation of transition metal complexes of aminopropylsilyldithiooxamide bonded phases for gas chromatography, 341 (1997) 35

### Cobalt(II) catalyst

Chemiluminescence from fluorescent organic compounds induced by cobalt(II) catalyzed decomposition of peroxomonosulfate, 371 (1998) 163

# Cobalt(II) porphyrin

Selective optical response to oxygen of membranes based on immobilized cobalt(II) porphyrins, 338 (1997) 119

# Cobalt(III) Acetate

Simplex optimization of reaction variables in the production of cobalt(III) acetate in a bipolar packed-bed reactor, 335 (1996) 35

# Cobinamides

Determination of cobalamins and cobinamides by microbore reversed-phase HPLC with spectrophotometric, ion-spray ionization MS and inductively coupled plasma MS detection, 359 (1998) 227

#### Cocaine

New cocaine-selective membrane electrode, 316 (1995) 371

Flow injection analysis with amperometric detection of cocaine in confiscated samples, 328 (1996) 67

The development of a non-competitive immunoenzymometric assay of cocaine, 358 (1998) 5

Rapid screening method for cocaine and benzoylecgonine in saliva samples, 372 (1998) 349

Voltammetric determination of benzoylecgonine, 389 (1999) 219

#### Coccidiosis

4.4'-Dinitrocarbanilide – hapten development utilizing molecular models, 376 (1998) 139

#### Coconut

Coconut-based plant tissue reactor for biosensing of catechol in flow injection analysis, 354 (1997) 325

# Co-crystallisation

Molecular challenges in modern chemometrics, 400 (1999) 413

# Co-current chromatography

Co-current chromatography: a new mode of liquid-liquid chromatography, 307 (1995) 173

# Cod muscle

Determination of bismuth in cod muscle, lake and river sediment by flow injection on-line sorption preconcentration in a knotted reactor coupled with electrothermal atomic absorption spectrometry, 354 (1997) 7

### Codeine

Integrated sensor for continuous flow electrochemiluminescent measurements of codeine with different ruthenium complexes, 392 (1999) 95

# Co-electroosmotic capillary electrophoresis

Simultaneous determination of sugars and organic acids by coelectroosmotic capillary electrophoresis with amperometric detection at a disk-shaped copper electrode, 371 (1998) 81

Determination of adenosine phosphate by co-electroosmotic capillary electrophoresis with amperometric detection, 399 (1999) 259

### Coenzyme

Study of biomolecules by combining electrochemistry with UV/Vis, IR and surface enhanced Raman scattering spectroscopy by a novel flow microcell, 382 (1999) 171

# Co-extraction

Overcoming the pH dependency of optical sensors: a pH-independent chloride sensor based on co-extraction, 398 (1999) 137

#### Coffee

Determination of volatile sulfur compounds in water samples, beer and coffee with purge and trap gas chromatography-microwaveinduced plasma atomic emission spectrometry, 316 (1995) 93

Application of pattern recognition to the discrimination of roasted coffees, 320 (1996) 191

Characterization of green coffee varieties according to their metal content, 358 (1998) 177

Authentication of green coffee varieties according to their sterolic profile, 370 (1998) 131

# CoHCF CME

Determination of glutathione in vivo by microdialysis using liquid chromatography with a cobalt hexacyanoferrate chemically modified electrode, 391 (1999) 307

#### Co-immobilisation

Purification and sensor applications of an oxygen insensitive, thermophilic diaphorase, 345 (1997) 17

A reagentless hydrogen peroxide sensor based on incorporation of horseradish peroxidase in poly(thionine) film on a monolayer modified electrode, 391 (1999) 299

# Coincidence techniques

Multielement instrumental activation analysis based on gammagamma coincidence spectroscopy, 386 (1999) 181

# Cold vapour

Determination of mercury in saliva with a flow-injection system, 320 (1996) 171

# Cold vapour AAS

Determination of mercury by cold vapour atomic absorption spectrometry with derivative signal processing, 395 (1999) 173

# Cold-vapor technique

Sequential injection analysis system for determination of mercury by cold-vapor atomic absorption spectroscopy, 355 (1997) 203

### Collaborative study

Determination of the oxygen-18 and deuterium content of fruit and vegetable juice water An European inter-laboratory comparison study, 302 (1995) 29

Site-specific natural isotope fractionation in fruit juices determined by deuterium NMR An European inter-laboratory comparison study, 321 (1996) 137

Determination of the carbon-13 content of sugars and pulp from fruit juices by isotope-ratio mass spectrometry (internal reference method) A European interlaboratory comparison, 340 (1997) 21

# Collagen

Adhesion of human platelets to collagen detected by <sup>51</sup>Cr labelling and acoustic wave sensor, 342 (1997) 23

Reversed-phase chromatography of pentosidine-containing CNBr peptides from collagen, 352 (1997) 257

Some spectroscopic and transport properties of a rare-earth chelate, Tb-PCTMP, 397 (1999) 267

# Collection systems

An artifact in air carbonyls sampling using C<sub>18</sub> DNPH-coated cartridge, 367 (1998) 223

# Collisional induced dissociation

Mass spectrometric analysis of additives in polymer extracts by desorption chemical ionization and collisional induced dissociation with B/E linked scanning, 311 (1995) 153

# Colloidal material

Optimisation of on-channel preconcentration in flow field-flow fractionation for the determination of size distributions of low molecular weight colloidal material in natural waters, 357 (1997) 187

# Colloids

Selective coprecipitation of colloidal manganese(IV) oxide, 315 (1995) 239

Characterization of colloidal particles by laser-induced plasma spectroscopy (LIPS), 346 (1997) 23

Development of sedimentation field-flow fractionation-inductively coupled plasma mass-spectrometry for the characterization of environmental colloids, 381 (1999) 315

#### Color

Novel spectrophotometer for the measurement of color and appearance, 380 (1999) 243

Standards for the measurement of diffuse reflectance – an overview of available materials and measurement laboratories, 380 (1999) 379

# Color additives

Spectrophotometric determination of Allura Red (R40) in soft drink powders using the universal calibration matrix for partial least squares multivariate method, 330 (1996) 19

### Color measurement

Introduction to measurement of color of fluorescent materials, 380 (1999) 183

# Colorants

Simultaneous adsorptive voltammetric analysis of mixed colorants by multivariate calibration approach, 329 (1996) 65

### Colorants determination

Determination of colorant matters mixtures in foods by solid-phase spectrophotometry, 331 (1996) 141

# Colorimetric assay

A colorimetric assay suitable for screening epoxide hydrolase activity, 391 (1999) 345

# Colorimetric detection

Determination of trimethylamine in fish by flow injection analysis, 321 (1996) 69

# Colorimetric method

A colorimetric method with the use of BDJ detector for seawater pH measurement, 377 (1998) 179

#### Colorimetry

Instrumentation, standards, and procedures used at the National Research Council of Canada for high-accuracy fluorescence measurements, 380 (1999) 193

Problems in colour measurement of fluorescent paper grades, 380 (1999) 227

Improved model for improving the inter-instrument agreement of spectrocolorimeters, 380 (1999) 263

Determination of colorimetric uncertainties in the spectrophotometric measurement of colour, 380 (1999) 277

Study of the dependency of spectral radiance factor and colorimetric values on geometric tolerances, 380 (1999) 363

# Colour pigments

Use of HPLC and multivariate methods for the evaluation of the stability of colour pigments of paprika (Capsicum annuum) powder, 372 (1998) 411

### Column liquid chromatography

Liquid chromatographic determination of amino acids and peptides by pre-column fluorescence derivatization with N-hydroxysuccinimidyl-α-(9-acridine)-acetate, 367 (1998) 69

Derivatization of alcohols using acridone-9-N-acetyl-benzene-disulfonate as a condensation agent and its application for the determination of volatile alcohols in human plasma by liquid chromatography with fluorescence detection, 391 (1999) 43

#### Column mode

Additional evidence of the operational character of the lability of complexes of copper(II) with simple organic ligands, 333 (1996) 97

### Column temperature dependence

Influence of column temperature on the ion chromatographic separation of aluminum species, 399 (1999) 223

### Combinatorial chemistry

The automatic visualisation of carry-over in high-throughput flow injection analysis mass spectrometry, 390 (1999) 175

Monitoring solid phase synthesis by infrared spectroscopic techniques, 393 (1999) 213

Sorting measurement queues to speed up the flow injection analysis mass spectrometry of combinatorial chemistry syntheses, 394 (1999) 33

### Combined glassy carbon mercury fim electrode

Constant current cathodic stripping potentiometric determination of arsenic on a mercury film electrode in the presence of copper ions, 381 (1999) 207

# Combined working-counter-reference electrode

Cathodic stripping potentiometric determination of selenium in biological and environmental materials on a combined electrode with a rotating sample platform, 338 (1997) 199

# Combustion smoke

Gas chromatographic determination of aldehydes in combustion smoke samples, 358 (1998) 269

# Commercial data acquisition boards

A low cost, open and flexible on-line data acquisition system for instrumental chromatography, 306 (1995) 285

#### Commutation

Evolution of the commutation concept associated with the development of flow analysis, 400 (1999) 249

#### Comparison

Comparison of alternative measurement methods, 391 (1999) 203

# Compartmentalized sensing layer

A transient enzymatic inhibition as an efficient tool for the discriminating bioluminescent analysis of three adenylic nucleotides with a fiberoptic sensor based on a compartmentalized trienzymatic sensing layer, 360 (1998) 89

# Compensation

Application of computerized compensation method to derivative synchronous spectrofluorimetry. Analysis of floctafenine and floctafenic acid in plasma, 351 (1997) 211

# Competitive binding

Effect of the competition of copper and cobalt on the lability of Ni(II)-organic ligand complexes. Part I. In model solutions containing Ni(II) and a well-characterized fulvic acid, 395 (1999) 309

# Competitive binding of nickel, copper and cobalt by organic complexants

Effect of the competition of copper and cobalt on the lability of Ni(II)-organic ligand complexes, Part II: in freshwaters (Rideau River surface waters), 395 (1999) 323

# Competitive immunoassay

Reversible immunosensor for the automatic determination of atrazine. Selection and performance of three polyclonal antisera, 386 (1999) 201

# **Complex formation**

Cu<sup>2+</sup>- and Cd<sup>2+</sup>-buffers in water-ethanol media, 315 (1995) 55

# Complex formation curves

A potentiometric and differential pulse polarographic study of Cd<sup>II</sup> with 1-hydroxyethylenediphosphonic acid, 379 (1999) 217

# Complex injection profiles

Development of an extremely flexible automatic analyzer with integrated biosensors for on-line control of fermentation processes, 315 (1995) 113

# Complex matrix samples

γ-Aminobutyrohydroxamate resins as stationary phases of chelation ion chromatography, 369 (1998) 225

### Complexation

Determination of sub-nanomolar concentrations of lead in sea water by adsorptive stripping voltammetry with xylenol orange, 309 (1995) 95

Chromogenic reagents for iron(II): studies in the 1,2,4-triazine series, 322 (1996) 203

Non-linearity with metal-metal ligand complex reactions in flow injection systems. Metal-thiocyanate reactions, 350 (1997) 37

Spectrofluorimetric study of the acid-base equilibria and complexation behavior of the fluoroquinolone antibiotics ofloxacin, norfloxacin, ciprofloxacin and pefloxacin in aqueous solution, 354 (1997) 197

Determination of copper complexation in seawater using flow injection analysis with chemiluminescence detection, 377 (1998) 133

Comparative spectrophotometric study of the complexation and extraction of tellurium with various halide ions and N,N'-di(acetoxyethyl)indocarbocyanine, 386 (1999) 161

### Complexation capacity

Determination of the mercury complexation capacity of natural waters by anodic stripping voltammetry, 350 (1997) 129

Modification of the van den Berg/Ruzic method for the investigation of complexation parameters of natural waters, 354 (1997) 15

# Complexation gas chromatography

Synthesis and properties of mercaptosilicone modified by Ni(II) and Co(II) as stationary phases for capillary complexation gas chromatography, 377 (1998) 61

# Complexation of rutin and cyclodextrins

A simple alternative determination of the formation constant for the inclusion complex between rutin and  $\beta$ -cyclodextrin, 329 (1996) 311

# **Complexation properties**

Characterization of acid-base and complexation properties of cellulose degradation products using capillary electrophoresis, 375 (1998) 243

# Complexes

Nuclear magnetic resonance spectroscopic analysis of the selective complexation of the cis and trans isomers of phenylalanylproline by β-cyclodextrin, 307 (1995) 449

Aluminum speciation by liquid chromatography concerning hydroand geo-chemical aspects, 332 (1996) 233

Spectrophotometric assay of aliphatic monohydroxamic acids and α-, β-, and γ-aminohydroxamic acids in aqueous medium, 353 (1997) 359

Selective and sensitive spectrophotometric determination of total vanadium with hydrogen peroxide and 4-(2-pyridylazo)-resorcinol, 389 (1999) 275

# Complexing capacity

Evaluation of cadmium-metallothionein stability constants based on voltammetric measurements, 360 (1998) 189

# Complexing stability constants

Rapid determinations of complexing stability constants by gradient flow-injection titration, 302 (1995) 97

# Complexometric titration

Analysis of superconductor oxides YBa<sub>2</sub>Cu<sub>3</sub>O<sub>8-x</sub> by inductively coupled plasma atomic emission spectrometry and complexometric titration, 330 (1996) 259 Simultaneous determination of mixtures of metal ions by complexometric titration and multivariate calibration, 354 (1997) 233

#### Composite biopolymer

Improvement of the analytical characteristics of an enzyme electrode for free and total cholesterol via laponite clay additives, 317 (1995) 275

### Composite ceramic-carbon electrodes

Sol-gel derived, ferrocenyl-modified silicate-graphite composite electrode: Wiring of glucose oxidase, 336 (1996) 95

### Composite electrodes

Graphite-poly(tetrafluoroethylene) electrodes as electrochemical detectors in flowing systems, 314 (1995) 13

Modified carbon-wax composite electrodes, 316 (1995) 253

A PVC-graphite composite electrode for electroanalytical use. Preparation and some applications, 355 (1997) 23

### Composite paste electrode

Fabrication of directly polymerized 4-vinylpyridine onto a pencil 2B graphite paste electrode for glucose monitoring, 354 (1997) 351

# Composition of glasses

Optical fibres: atomic spectroscopic methods for the determination of fluoride glasses composition, 383 (1999) 243

#### Compound aspirin tablet

Simultaneous monitoring of aspirin, phenacetin and caffeine in compound aspirin tablets using a sequential injection drugdissolution testing system with partial least squares calibration, 392 (1999) 273

# Compound-independent calibration

Gas chromatography-atomic emission detection for quantification of polycyclic aromatic sulfur heterocycles, 376 (1998) 265

# Compressional waves in liquids

Signal oscillations of a piezoelectric quartz crystal in liquids caused by compressional waves, 364 (1998) 189

### Compton

Study of on-line analysis using energy dispersive X-ray fluorescence spectrometry for controlling lanthanum and neodymium extraction, 362 (1998) 253

# Computational chemical analysis

Computational chemical analysis of chiral recognition in liquid chromatography, selectivity of N-(R)-1-(α-naphthyl)ethylamino carbonyl-(R or S)-valine and N-(S)-1-(α-naphthyl)ethylamino carbonyl-(R or S)-valine bonded aminopropyl silica gels, 332 (1996) 213

# Computational neural networks

Prediction of gas chromatographic retention indices of alkylbenzenes, 342 (1997) 113

The continuous-addition-of-reagent technique as an effective tool for enhancing kinetic-based multicomponent determinations using computational neural networks, 389 (1999) 131

# Computational scheme

Computational scheme for the prediction of metal ion binding by a soil fulvic acid, 302 (1995) 309

# Computational techniques

Development and application of a standardized validation procedure for food chemistry laboratories, 391 (1999) 239

#### Computer aided simulation

Evidence of axial diffusion accompanied by axial dispersion with zone circulating flow-injection analysis data, 309 (1995) 227

#### Computer program

New parameters for predicting <sup>1</sup>H NMR chemical shifts of protons attached to carbon atoms, 312 (1995) 95

Simultaneous decomposition of several spectra into the constituent Gaussian peaks, 316 (1995) 195

PKPOT, a program for the potentiometric study of ionic equilibria in aqueous and non-aqueous media, 317 (1995) 75

A computer program GEZ for determination of the equivalence point of the acid-base titration and E<sub>0</sub> of the glass electrode, 331 (1996) 23

Computer program for the determination of salicylic acid content in aspirin by derivative spectrometry, 333 (1996) 181

Second order global analysis: the evaluation of series of spectrophotometric titrations for improved determination of equilibrium constants, 353 (1997) 381

# Computer supported structure elucidation

Joined knowledge- and signal processing for infrared spectrum interpretation, 393 (1999) 193

# Computer-controlled scanning electron microscopy

Classification of single particles by neural networks based on the computer-controlled scanning electron microscopy data, 348 (1997) 375

# Computerized data acquisition

A flexible computer-based technique for the analysis of data from a sea-going nutrient autoanalyser, 345 (1997) 197

# Computerized data analysis

A flexible computer-based technique for the analysis of data from a sea-going nutrient autoanalyser, 345 (1997) 197

# Computerized methods

Development and testing of a new computerized method for multicomponent kinetic determinations based on multiwavelength spectrophotometric detection, 310 (1995) 307

# Concanavalin A

Competitive-binding assay method based on fluorescence quenching of ligands held in close proximity by a multivalent receptor, 345 (1997) 203

Application of reversible immobilization techniques for biosensors, 368 (1998) 197

# Concentrated solution analysis

Fundamental baseline variations in aqueous near-infrared analysis, 394 (1999) 135

#### Concentration

Selective separation and concentration of vanadium(V) by a chemical pumping hollow-fiber supported liquid membrane, 349 (1997) 171

# Concentration gradients

A new approach for compensating concentration gradients in flow analysis, 331 (1996) 17

# Concentration profiles

Time-division multiplex technique for producing concentration profiles in flow analysis, 368 (1998) 105

# Concentration step

Theoretical treatment of the current vs. time response of microelectrode arrays to changes of potential, concentration, or flow, 341 (1997) 121

# Condensation agent

Derivatization of alcohols using acridone-9-N-acetyl-benzene-disulfonate as a condensation agent and its application for the determination of volatile alcohols in human plasma by liquid chromatography with fluorescence detection, 391 (1999) 43

#### Conditional extraction constant

Solvent extraction of arsenic from acid medium using zinc hexamethylenedithiocarbamate as an extractant, 360 (1998) 43

# Conductimetric detection of CO2

Determination of CO<sub>2</sub> in gaseous samples using a monosegmented flow system and conductimetric detection, 366 (1998) 223

# Conductimetry

Indirect conductometric detection of amino acids after liquid chromatographic separation Part II. determination of monosodium glutamate in foods, 302 (1995) 45

Influence of the concentration on the conductimetric properties of a fulvic acid system, 304 (1995) 375

Use of conductimetry for the monitoring of thermodynamicallycontrolled enzymatic peptide synthesis, 312 (1995) 213

Automated conductometry: robotic station for analytical titrations, 317 (1995) 127

Toxic interactions between clozapine and ampicillin, 319 (1996)

Conductometric urea sensor. Use of additional membranes for the improvement of its analytical characteristics, 321 (1996) 35

Flow injection conductimetric or spectrophotometric analysis for acidity in fruit juice, 363 (1998) 199

# Conducting organic salts

Inverse derivative chronopotentiometry/quartz crystal microgravimetry of solid conducting salt films, 380 (1999) 47

# Conducting polymers

Polypyrrole-based amperometric flow injection biosensor for urea, 323 (1996) 107

The potentiometric response of chemically modified electrodes, 334 (1996) 317

Detection of amino acids at conducting electroactive polymer modified electrodes using flow injection analysis. Part I. Use of macroelectrodes, 339 (1997) 201 Detection of amino acids at conducting electroactive polymer modified electrodes using flow injection analysis. Part II. Use of microelectrodes. 339 (1997) 211

Detection of haloacetic acids at conductive electroactive polymermodified microelectrodes, 341 (1997) 141

Application of inverse gas chromatography to characterisation of a polypyrrole surface, 363 (1998) 147

Potentiometric detection of organic acids in liquid chromatography using conducting oligomer electrodes, 370 (1998) 105

Hydrogen ion selective electrode based on poly(1-aminoanthracene) film, 377 (1998) 21

An electrochemical quartz crystal microbalance study on growth of and ion transport in electrochemically polymerized poly(paraphenylene vinylene), 385 (1999) 175

Plasticizer-free all-solid-state potassium-selective electrode based on poly(3-octylthiophene) and valinomycin, 385 (1999) 195

Potentiometric detection in capillary electrophoresis with a conducting oligomer electrode, 385 (1999) 417

Electrochemical deposition and properties of polypyrrole films doped with calcion ligands, 395 (1999) 65

# Conductive carbon cement

Determination of pharmaceutical thiols by liquid chromatography with electrochemical detection: Use of an electrode with a conductive carbon cement matrix, chemically modified with cobalt phthalocyanine, 332 (1996) 249

#### Conductive epoxy electrode

Study of the temperature behaviour of all-solid-state nonactin ammonium electrodes with PVC membrane applied to graphite-epoxy supports of varied composition, 355 (1997) 241

# Conductometric biosensor

Glucose conductometric biosensor with potassium hexacyanoferrate(III) as an oxidizing agent, 374 (1998) 11

# Conductometry

Theory of the surface acoustic wave/impedance sensor system and its application to the end-point determination in titrimetry, 320 (1996) 245

Conductometric determination of dissociation constants of several acids and their tetrabutylammonium salts in propan-2-ol/water mixtures, 333 (1996) 241

Effect of AC voltage frequency on the sensitivity of conductometric detection in microseparation techniques, 390 (1999) 101

# Confidence intervals

Confidence intervals for the activation energy estimated by few experiments, 355 (1997) 175

# Confluence point in sample loop

Sequential determinations by confluent reagent introduction in the sample loop: system characteristics and applications, 366 (1998) 281

# Confocal microscopy

Comparative analysis of topographic distribution of acetylated histone H4 by using confocal microscopy and a deconvolution system, 365 (1998) 9

# Conformation

Monitoring of α-helical secondary structures in peptides by reversed-phase HPLC of replacement sets, 352 (1997) 365

# Conformation **\beta-turn**

Peptides as tools for studying propertide and proprotein processing, 352 (1997) 155

#### Conformational changes

Study of the acid-base equilibria and conformational changes of double stranded polyadenylic-polyuridylic acid in aqueous solution, 363 (1998) 119

# Conformational equilibrium

HPLC in the characterisation of conformational species of linear gramicidins, 352 (1997) 309

# Conjugates

Inaccuracy of the Bradford method for the determination of protein concentration in steroid-horseradish peroxidase conjugates, 337 (1997) 93

Development of an enzyme-linked immunosorbent assay (ELISA) for antitumor agent MKT 077, 362 (1998) 177

# Consecutive complexes

Metal complexation model identification and the detection and elimination of erroneous points using evolving least-squares fitting of voltammetric data, 363 (1998) 261

# Consecutively formed complexes

Evolving polynomial regression and error analysis in model identification and determination of consecutive stability constants using voltammetric methods, 325 (1996) 135

# Consecutive-monotonic

Consecutive titrations under non-equilibrium conditions. . A new mode of automatic titration, 355 (1997) 85

# Consecutive-monotonic titrations

Titration of low levels of Fe<sup>2+</sup> with electrogenerated Ce<sup>4+</sup>, 392 (1999) 307

### Conservation science

Characterisation of an unusual crystalline efflorescence on an Egyptian limestone relief, 337 (1997) 151

Investigation of the composition of a unique efflorescence on calcareous museum artifacts, 337 (1997) 253

# Conservative liquids

Indirect determination of ascorbic acid by solid-phase spectrophotometry, 360 (1998) 143

# Consistent separate solution method

Comparison of different methods for determining the selectivity coefficient using a magnesium-selective electrode, 375 (1998) 211

### Consolidated biocomposite

A potentiometric biosensor for p-amygdalin based on a consolidated biocomposite membrane, 391 (1999) 65

# Constant current stripping analysis

Determination of tin in canned fruit juices by stripping potentiometry, 333 (1996) 115

# Constraints

Assessment of new constraints applied to the alternating least squares method, 346 (1997) 307

### Contact potential difference

A study of hydrogen detection with palladium modified porous silicon, 375 (1998) 205

#### Contaminants

An environmental study by factor analysis of surface seawaters in the Gulf of Valencia (Western Mediterranean), 394 (1999) 109

#### Contaminated herd

Application of radioimmunoassay in the screening of polychlorinated biphenyls in cow's milk, 311 (1995) 415

#### Contaminated land

A critical evaluation of the three-stage BCR sequential extraction procedure to assess the potential mobility and toxicity of heavy metals in industrially-contaminated land, 363 (1998) 45

#### Contaminated sites

Determination of arsenic by hydride generation gas diffusion flow injection analysis with electrochemical detection, 334 (1996) 193

# Contaminated soil

Fast screening of contaminated soil samples using thermal desorption mass spectrometry, 315 (1995) 159

# Content uniformity

Determination of paracetamol in intact tablets by use of near infrared transmittance spectroscopy, 383 (1999) 283

# Content-addressable memory

Simple encoding of infrared spectra for pattern recognition Part 2. Neural network approach using back-propagation and associative Hopfield memory, 316 (1995) 145

# Continuous addition

Evaluation of peroxyoxalate chemiluminescence for the sensitive determination of hallucinogenic alkaloids, 314 (1995) 87

# Continuous addition of catalyst

Kinetic catalytic analysis: Extended theory of continuous addition of catalyst to a reference solution for nonequal reference and sample initial signals, 335 (1996) 185

# Continuous filtration

A flow-injection continuous filtration approach for the automatic determination of monoclonal antibodies, 331 (1996) 245

# Continuous flow analysis

Micro-continuous flow system for wet chemical analysis, 354 (1997) 35

Polyurethane foam as a sorbent for continuous flow analysis: Preconcentration and spectrophotometric determination of zinc in biological materials, 366 (1998) 263 An on-line solid phase extraction system using polyurethane foam for the spectrophotometric determination of nickel in silicates and alloys, 378 (1999) 287

Flow-injection and stopped-flow completely continuous flow spectrophotometric determinations of aniline and cyclohexylamine, 396 (1999) 151

#### Continuous flow biosensor

Capture agents for a quartz crystal microbalance-continuous flow biosensor: functionalized self-assembled monolayers on gold, 399 (1999) 51

# Continuous hydride generation

Comparative study to evaluate the effect of different acids on the determination of germanium by hydride generation—inductively coupled plasma atomic emission spectrometry, 376 (1998) 283

# Continuous mass spectrometry

Measurement of inorganic acids with rotating ball inlet mass spectrometry, 390 (1999) 185

#### Continuous membrane extraction

Automated analysis for vitamin E in butter by coupling sample treatment – continuous membrane extraction – liquid chromatography with electrochemical detection, 386 (1999) 99

# Continuous monitoring

Buffer composition suitable for determining very low fluoride concentrations using a fluoride ion-selective electrode and its application to the continuous analysis of rain water, 338 (1997) 141

Ionophores, ligands and reactands, 400 (1999) 65

# Continuous precipitation

Indirect flow-injection determination of tannins in wines and tea by atomic absorption spectrometry, 308 (1995) 357

# Continuous precipitation-dissolution

Precipitation flow-injection method for the determination of saccharin in mixtures of sweeteners, 308 (1995) 275

# Continuous sampling

A flexible computer-based technique for the analysis of data from a sea-going nutrient autoanalyser, 345 (1997) 197

# Continuous-addition-of-reagent technique

Chemiluminescence measurement of tertiary amines using the continuous-addition-of-reagent technique. Determination of trimethylamine in fish samples, 356 (1997) 51

The continuous-addition-of-reagent technique as an effective tool for enhancing kinetic-based multicomponent determinations using computational neural networks, 389 (1999) 131

# Continuous-flow analysis

Determination of free and total fluoride in rain water using a continuous-flow system equipped with a fluoride ion-selective electrode detector, 364 (1998) 117

# Continuous-flow system

Continuous-flow discrimination of L- and D-histidine, 375 (1998) 99

# Contraceptives analysis

Simultaneous spectrophotometric determination of ethinylestradiol and levonorgestrel by partial least squares and principal component regression multivariate calibration, 340 (1997) 257

#### Control

Detection and identification of thyreostats in the thyroid gland by gas chromatography-mass spectrometry, 340 (1997) 201

#### Control analyses

Analytical control of pharmaceutical production steps by near infrared reflectance spectroscopy, 392 (1999) 237

# Controlled-pore glass

Development of an automated controlled-pore glass flow-through immunosensor for carbaryl, 347 (1997) 199

#### Convection

Theoretical treatment of the current vs. time response of microelectrode arrays to changes of potential, concentration, or flow, 341 (1997) 121

# Cookies, bovine blood plasma-containing

Three pressurized mineralization procedures that permit subsequent flame atomic spectrometric determination of Ca, Fe, K, Mg and Zn in bovine blood plasma-containing cookies and in standard reference materials, 306 (1995) 139

# Coomassie blue

Inaccuracy of the Bradford method for the determination of protein concentration in steroid-horseradish peroxidase conjugates, 337 (1997) 93

# Co-operative binding

Affinity between immobilised monoclonal and polyclonal antibodies and steroid-enzyme tracers increases sharply at high surface density, 381 (1999) 133

# Coordination action

Substituted metalloporphyrin derivatives as anion carrier for PVC membrane electrodes, 302 (1995) 263

# Co-phthalocyanine

Electrochemical response of new carbon electrodes bulk modified with cobalt phthalocyanine to some thiols in the presence of heptane or human urine, 394 (1999) 91

### Copper

Flow-injection spectrophotometric determination of copper using bis(cyclohexanone) oxalyldihydrazone, 304 (1995) 97

Determination of traces of copper by anodic stripping voltammetry after its preconcentration via an ion-exchange route at carbon paste electrodes modified with vermiculite, 305 (1995) 176

In-flow speciation of copper, zinc, lead and cadmium in fresh waters by square wave anodic stripping voltammetry Part II. Optimization of measurement step, 305 (1995) 183

Differential electrochemical mass spectrometry study of the electroless copper plating process using a thin-layer flow-through cell, 305 (1995) 227

Use of arylidenerhodanines for the determination of Cu(II), Hg(II) and CN<sup>-</sup>, 307 (1995) 127

- Ultraviolet detection of peptides by reversed-phase liquid chromatography using an in-line reactor containing copper metal, 309 (1995) 169
- Evaluation of multicomponent flow-injection analysis data by use of a partial least squares calibration method, 310 (1995) 53
- Simultaneous multielement determination in complex matrices using frequency-modulated electrothermal atomic absorption spectrometry, 310 (1995) 181
- Remote stripping electrode for in situ monitoring of labile copper in the marine environment, 310 (1995) 223
- Determination of Cu(II) and Ni(II) as chelates with butyl xanthate by liquid chromatography with electrochemical and spectrophotometric detection, 311 (1995) 225
- Selective potentiometric determination of copper(II) ions by use of a molecular deposition film electrode based on water-soluble copper phthalocyanine, 312 (1995) 207
- Determination of oxygen stoichiometry in YBCO superconductors by spectrophotometry, 312 (1995) 223
- Improved iodometric method for simultaneous determination of non-stoichiometric oxygen and total copper content in YBCO superconductors, 312 (1995) 227
- Cu2+- and Cd2+-buffers in water-ethanol media, 315 (1995) 55
- Determination of copper in human plasma by stripping potentiometry on a mercury film electrode in ethylenediamine medium, 315 (1995) 69
- Determination of phytochelatins by cathodic stripping voltammetry in the presence of copper(II), 319 (1996) 13
- Standard additions in flow injection analysis based on merging zones and gradient exploitation: application to copper determination in spirits, 319 (1996) 153
- Rapid determination of copper, lead and cadmium in unpurged seawater by adsorptive stripping voltammetry, 320 (1996) 19
- Enhancement of peroxyoxalate chemiluminescence by copper(II) in flow injection analysis; optimization by factorial design analysis, 320 (1996) 99
- Analysis of copper corrosion inhibitors by capillary zone electrophoresis, 321 (1996) 215
- Conducting polymer-based ion-selective electrodes, 322 (1996) 141
  Anodic stripping voltammetry of trace metals by batch injection analysis, 322 (1996) 151
- Copper(II) binding abilities of molecular weight fractionated humic acids and their mixtures, 322 (1996) 173
- Stripping voltammetry at preplated mercury coated microelectrodes in flowing solutions, 325 (1996) 11
- Development of a carbon composite electrode made from polyethylene and graphite powder modified with copper(I) oxide, 326 (1996) 107
- Spectrophotometric determination of copper after extraction of its chelate with bis(acetylacetone)ethylenediimine, 329 (1996) 315
- Determination of copper in natural waters by batch and oscillating flow injection stripping potentiometry, 330 (1996) 79
- Determination of copper, lead and cadmium in whole blood by stripping voltammetry with the use of graphite electrodes, 330 (1996) 175
- Flow injection extraction spectrophotometric determination of copper using bis(acetylacetone)ethylenediimine, 331 (1996) 253

- Novel separation of inorganic anions using a charged complex ionexchanger, 334 (1996) 1
- Multicomponent analysis of sodium cuprate, NaCuO<sub>2-x</sub>, having a high Cu(III) content, 334 (1996) 103
- Determination of ultratrace metallic impurities in fluorocarbon polymers by electrothermal atomic absorption spectrometry after decomposition with a combustion system, 336 (1996) 151
- Determination of poly(vinyl alcohol) by adsorptive stripping voltammetry based on its copper(II) complex, 338 (1997) 103
- On the suppression of zinc-copper interactions in square wave anodic stripping voltammetry in flowing solution by addition of gallium ions, 339 (1997) 167
- Factors affecting the analytical applications of zeolite-modified electrodes Preconcentration of electroactive species, 340 (1997) 61
- Flow injection analysis of copper diethyldithiocarbamate in high resistance toluene media using a microelectrode detector, 340 (1997) 169
- The Schiff bases of salicylaldehyde and aminopyridines as highly sensitive analytical reagents, 343 (1997) 145
- Substituted catechols as complexing agents for the determination of bismuth, lead, copper and cadmium by adsorptive stripping voltammetry, 344 (1997) 87
- Mercury nucleation on glassy carbon electrodes, 346 (1997) 157 Disposable thick film modified graphite electrodes for stripping
- voltammetry, 349 (1997) 85
  Rapid and simultaneous analysis of trace metals (Cn. Pb and Cd) in
- Rapid and simultaneous analysis of trace metals (Cu, Pb and Cd) in seawater by potentiometric stripping analysis, 351 (1997) 83
- Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165
- Speciation of Cu, Pb, Cd and Hg in waters of the Oporto coast in Portugal, using pre-concentration in a Chelamine resin column, 353 (1997) 189
- Investigation of a new reaction for the determination of microquantities of sulfite in some inorganic salts, 357 (1997) 239
- Determination of Cu, Zn, Cd and Pb in fish samples by slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry, 359 (1998) 205
- In situ monitoring of copper(II) fixation on silica gel in aqueous ammonia by means of dielectric measurements and quantitative analysis of adsorbed species, 361 (1998) 273
- Liquid-liquid extraction of cationic metal complexes with p-nonylphenol solvent: Application to crown and thiacrown ether complexes of lead (II) and copper (II), 363 (1998) 165
- Determination of copper at ng ml<sup>-1</sup>-levels based on quenching of the europium chelate luminescence, 364 (1998) 125
- Simultaneous determination of trace amounts of nickel, copper and mercury by liquid chromatography coupled with flow-injection on-line derivatization and preconcentration, 369 (1998) 215
- A study of the analytical parameters important for the sequential extraction procedure using microwave heating for Pb, Zn and Cu in calcareous soils, 369 (1998) 235
- Coupling of flow injection wetting-film extraction without segmentation and phase separation to flame atomic absorption spectrometry for the determination of trace copper in water samples, 370 (1998) 151

- Determination of zinc in environmental samples by anodic stripping voltammetry, 376 (1998) 197
- Determination of copper complexation in seawater using flow injection analysis with chemiluminescence detection, 377 (1998) 133
- Amperometric determination of sympathomimetic drugs by flow injection analysis with a metallic copper electrode, 379 (1999) 81
- Solvent extraction of copper(II) from chloride media using N-(thiocarbamoyl)benzamidine and N-benzoylthiourea derivatives, 382 (1999) 205
- Selective monitoring of Cu<sup>(II)</sup> species using a silica modified carbon paste electrode, 385 (1999) 79
- Voltammetric response of a copper(II) complex incorporated in silica-modified carbon-paste electrode, 385 (1999) 103
- Determination of trace amounts of copper(II) by adsorptive stripping voltammetry of its complex with pyrogallol red, 385 (1999) 265
- Adsorptive cathodic stripping voltammetric determination of gold(-III) in the presence of yeast mannan, 385 (1999) 393
- Determination of sub-µg l<sup>-1</sup> concentrations of copper by anodic stripping voltammetry at the gold electrode, 387 (1999) 85
- Application of internal standard for micro extraction-spectrophotometric determination of copper in serum and in natural waters, 387 (1999) 217
- Factors affecting the analytical applications of zeolite modified electrodes: indirect detection of nonelectroactive cations, 388 (1999) 79
- Study of sorption of copper(II) on complexing resin columns by solid phase extraction, 389 (1999) 59
- 1,10-Phenanthroline as a complexing agent for on-line sorbent extraction/preconcentration for flow injection-flame atomic absorption spectrometry, 392 (1999) 283
- Effect of the competition of copper and cobalt on the lability of Ni(II)-organic ligand complexes. Part I. In model solutions containing Ni(II) and a well-characterized fulvic acid, 395 (1999) 309
- Determination of complex formation constants for Cu(II)-Alizarin complexone with amines by capillary zone electrophoresis, 398 (1999) 75

# Copper acetate

An automatic measurement of hydrogen cyanide in air by a monitoring tape method, 398 (1999) 305

# Copper alloy

Synthesis and analytical application of 2,6-dichloroarsenazo as a new chromogenic reagent for bismuth, 380 (1999) 101

# Copper and lead

An approach to the calibrationless determination of copper and lead by anodic stripping voltammetry at thin mercury film microelectrodes. Application to well water and rain, 346 (1997) 145

# Copper complexes

- Interaction of tyrosine and tyrosine dipeptides with Cu<sup>2+</sup> ions: a fluorescence study, 315 (1995) 217
- Additional evidence of the operational character of the lability of complexes of copper(II) with simple organic ligands, 333 (1996) 97

# Copper determination

- Stoichiometry of superconducting YBa<sub>2</sub>Cu<sub>3</sub>O<sub>5</sub> A comparison of methods for the determination of the Cu(I):Cu(II) ratio, 304 (1995) 223
- Differential pulse anodic stripping voltammetric determination of copper(II) with N-phenylcinnamohydroxamic acid modified carbon paste electrodes, 368 (1998) 165

# Copper electrocatalyst

- Copper dispersed into polyaniline films as an amperometric sensor in alkaline solutions of amino acids and polyhydric compounds, 335 (1996) 217
- Chemical oxygen demand sensor employing a thin layer electrochemical cell, 386 (1999) 211

# Copper electrode

- Potentiometric detection in capillary electrophoresis with a metallic copper electrode, 354 (1997) 129
- Amperometric determination of sympathomimetic drugs by flow injection analysis with a metallic copper electrode, 379 (1999) 81

#### Copper in duralmin

Capillary electrophoretic separation of several transition-metal ions as their complexes with 1,10-phenanthroline derivatives and its application to the determination of copper in duralmin alloys, 364 (1998) 75

# Copper ion interference

Kinetics based determination of trace amounts of silver at the excess of copper ions, 394 (1999) 185

# Copper microparticles

Highly-dispersed copper microparticles on the active gold substrate as an amperometric sensor for glucose, 357 (1997) 63

# Copper oxide electrode

Evaluation of chemical oxygen demand (COD) based on coulometric determination of electrochemical oxygen demand (EOD) using a surface oxidized copper electrode, 398 (1999) 161

# Copper phthalocyanine

Selective potentiometric determination of copper(II) ions by use of a molecular deposition film electrode based on water-soluble copper phthalocyanine, 312 (1995) 207

# Copper potentiometric sensors

Copper potentiometric sensors based on copper complexes containing thiohydrazone and thiosemicarbazone ligands, 385 (1999) 143

# Copper speciation

- Theory and application of chemically modified carbon paste electrode to copper speciation determination, 305 (1995) 42
- Determination of copper speciation in freshwater samples through SPE-spectrophotometry, 343 (1997) 259
- Comparison of two kinetic approaches for copper speciation using ion-exchange columns and ion-exchange modified carbon paste electrodes, 382 (1999) 179

# Copper tetraaminophthalocyanine

Multichannel amperometric detection system for liquid chromatography to assay the thiols in human whole blood using the platinum microelectrodes chemically modified by copper tetraaminophthalocyanine, 399 (1999) 213

# Copper vapor laser

Electrothermal atomization laser-excited atomic fluorescence spectrometry for direct analysis of germanium in water and blood samples, 350 (1997) 231

# Copper(II)

Potentiometric stripping analysis vs. differential pulse anodic stripping voltammetry for copper(II) analysis at relatively positive deposition potential, 303 (1995) 255

A new polymeric chromogenic reagent for the determination of copper(II), 334 (1996) 213

Synergetic adsorption of copper(II) mixed ligand complexes onto the SEP-PAK C<sub>18</sub> column, 339 (1997) 181

Adsorptive determination of copper(II) in solution as its N,Ndiethyldithiocarbamate on an electrode-separated piezoelectric quartz crystal, 343 (1997) 209

Electrochemical study of proton ionisation, copper(II) complexation and surfactant properties of piperazine-N-N'-bis[2-hydroxypropanesulfonic acid] pH buffer. Comparison with other N-substituted aminosulfonic acids pH buffers, 369 (1998) 115

New electrolyte system for the determination of ammonium, alkali and alkaline earth cations by capillary electrophoresis, 374 (1998) 159

Adsorptive determination of copper(II) in solution as an ion-pair of bisneocuproinecopper(I) and dodecylsulfate ions on an electrode-separated piezoelectric quartz crystal, 374 (1998) 291

### Copper(II) complexes

Influence of the ratio copper(II) to ligand concentrations and the nature of entering and leaving ligands on the lability of copper(II) complexes, 330 (1996) 273

# Copper(II) ion

Copper(II) ion-sensitive electrode using chemical vapor deposited Nb-Ge superconducting films, 382 (1999) 151

# Copper(II) phosphate

Flow injection spectrophotometric determination of L-ascorbic acid in pharmaceutical formulations with on-line solid-phase reactor containing copper (II) phosphate, 366 (1998) 55

Solid-phase reactor with copper(II) phosphate for flow-injection spectrophotometric determination of aspartame in tabletop sweeteners, 384 (1999) 167

# Copper(II)-humic acids

Application of potentiometric stripping analysis for speciation of copper complexes with adsorbable ligands on the mercury electrode, 314 (1995) 241

# Copper(II)-N,N-diethyldithiocarbamate

Novel preconcentration technique for trace metal ions by aggregate film formation. Spectrophotometric determination of copper(II), 364 (1998) 13

# Copper(II)-pyridylazo complex

Electrospray ionization mass spectrometry of metal complexes. Gas phase formation of a binuclear copper(II)-5-Br-PADAP complex, 390 (1999) 193

# Copper-base alloys

Applications of a slotted tube atom trap and flame atomic absorption spectrometry: determination of bismuth in copper-based alloys with and without hydride generation, 311 (1995) 93

Spectrophotometric determination of bismuth after extraction of benzyltributylammonium tetraiodobismuthate(III), 355 (1997) 167

An on-line solid phase extraction system using polyurethane foam for the spectrophotometric determination of nickel in silicates and alloys, 378 (1999) 287

# Copper-binding ligands

A chromatographic method to characterize copper-binding ligands, 332 (1996) 241

# Copper-mercury film electrode

Square-wave voltammetric stripping analysis of lead(II) at a Nafion R/copper-mercury film electrode, 332 (1996) 59

### Copper-selective collector

Formation of a copper-butyl ethoxycarbonyl thiourea complex, 346 (1997) 237

### Coprecipitation

Coprecipitation with tin (IV) hydroxide followed by removal of tin carrier for the determination of trace heavy metals by graphitefurnace atomic absorption spectrometry, 302 (1995) 103

Selective coprecipitation of colloidal manganese(IV) oxide, 315 (1995) 239

Separation of microgram quantities of Cr(III) and Cr(VI) in aqueous solutions and determination by energy dispersive X-ray fluorescence spectrometry, 315 (1995) 365

Determination of ultratrace iron in KH<sub>2</sub>PO<sub>4</sub> by derivative adsorption chronopotentiometry, 347 (1997) 257

Determination of arsenic, antimony, selenium, tellurium and bismuth in nickel metal by hydride generation atomic fluorescence spectrometry, 371 (1998) 109

Coprecipitation of ruthenium with chitosan and its determination by graphite furnace atomic absorption spectrometry, 398 (1999) 289

# Coproporphyrin

Determination of corproporphyrin in urine by using stopped-flow fluoroimmunoassay, 361 (1998) 27

# Coproporphyrin III

Room temperature phosphorescence of palladium(II)-coproporphyrin III complex in a precipitated nonionic surfactant micelle phase: determination of traces of palladium(II), 320 (1996) 133

### Corn

Non-aqueous flow-injection determination of atrazine by inhibition of immobilized tyrosinase, 362 (1998) 187

### Correlation

Determination of componentwise chromatographic elution regions using singular value evolving profiles, 334 (1996) 15

Data correlation, number of significant principal components and shape of molecules. The K correlation index, 348 (1997) 419

#### Correlation and covariance matrix

Use of cluster and principal component analysis in quantitative structure-retention relationship study, 348 (1997) 481

# Correlation chromatography

Analyzing time varying flow composition using multiple input chromatography, 348 (1997) 203

#### Correlation measures

Data correlation, number of significant principal components and shape of molecules. The K correlation index, 348 (1997) 419

# Correspondence factor analysis

Study of the influence of N-benzylideneanilines conformation on retention in normal phase liquid chromatography, 356 (1997) 187

# Corrosion

Determination of iron in nuclear grade zirconium oxide by x-ray fluorescence spectrometry using an internal intensity reference, 309 (1995) 333

# Corrosion inhibitors

Analysis of copper corrosion inhibitors by capillary zone electrophoresis, 321 (1996) 215

#### Cortisol-21-phosphate

Chemiluminescence assay of alkaline phosphatase using cortisol-21-phosphate as substrate and its application to enzyme immunoassays, 337 (1997) 335

### Cosmetic

Determination of mercury by cold vapour atomic absorption spectrometry with derivative signal processing, 395 (1999) 173

# Coulometric stripping analysis

Mercury nucleation on glassy carbon electrodes, 346 (1997) 157

# Coulometric titration

Spectrophotometric and coulometric titration investigations of oxidation states and forms of ruthenium(IV) in hydrochloric acid solutions, 345 (1997) 243

Determination of non-stoichiometric oxygen in YBCO superconductors by coulometric titration, 353 (1997) 325

New developments in coulometric titrations. Non-isolated counter electrodes, 359 (1998) 115

Titration of low levels of Fe<sup>2+</sup> with electrogenerated Ce<sup>4+</sup>, 392 (1999) 307

# Coulometry

Predictive model for coulometric operation in a thin-layer amperometric flow cell, 306 (1995) 115

Self-driven coulometry of ethanol, d-glucose and d-fructose using ubiquinone-dependent dehydrogenase reactions, 306 (1995) 231

Application of hydrogen-palladium and deuterium-palladium electrodes in the coulometric-potentiometric determination of bases in some dipolar aprotic solvents, 318 (1996) 287 Novel potentiometric monitoring combined with coulometric reagent generation, 319 (1996) 49

Investigation of the electrochemical oxidation of clenbuterol at a porous carbon electrode, and its application to the determination of this β-agonist in bovine hair by liquid chromatography with coulometric detection, 322 (1996) 159

Selective determination of gas dialysable components in complex sample solutions using triangle programmed coulometric titration in continuous flow systems., 324 (1996) 115

A coulometer for determination of residual sulfite following the dechlorination of water, 332 (1996) 155

Detection and elimination of the constant error component and the interactive matrix interference in the determination of adsorbable organic halogen (AOX) in bleached kraft paper pulp mill effluents, 333 (1996) 139

Mercury nucleation on glassy carbon electrodes, 346 (1997) 157

Universal coulometric nanotitrators with potentiometric detection, 361 (1998) 261

#### Coumarins

Chromoionophores derived from a coumarin linked to monoaza- and diaza-crown ethers: formation of divalent 3d metal complexes, 302 (1995) 341

Sequential flow-injection spectrofluorimetric determination of coumarins using a double-injection single-line system, 308 (1995) 293

Study of coumarin metabolism by human liver microsomes using capillary electrophoresis, 310 (1995) 101

# Counterpropagation

Study of structure-toxicity relationship by a counterpropagation neural network, 384 (1999) 319

# Counterpropagation algorithm

The continuous-addition-of-reagent technique as an effective tool for enhancing kinetic-based multicomponent determinations using computational neural networks, 389 (1999) 131

# Counterpropagation network (CPN)

A new method based on counterpropagation network algorithm for chemical pattern recognition, 388 (1999) 161

# Counterpropagation neural networks

On-line automated analytical signal diagnosis in sequential injection analysis systems using artificial neural networks, 348 (1997) 113

Modelling of gas chromatographic retention indices using counterpropagation neural networks, 348 (1997) 215

# Coupled analysis

Electrophoresis and isoelectrofocusing coupled with agar diffusion for the characterization of antibodies and enzymes, 383 (1999) 127

# Coupled column LC (LC-LC)

Trace determination of triazine herbicides by means of coupledcolumn liquid chromatography and large volume injection, 338 (1997) 223

### Coupled enzymes

Alcohol biosensors based on coupled oxidase-peroxidase systems, 327 (1996) 223

### Coupled reactions

Qualitative and quantitative aspects of the application of genetic algorithm-based variable selection in polarography and stripping voltammetry, 378 (1999) 245

#### Coupling techniques

Simultaneous determination of cephalexin and cefadroxil by using the coupling technique of synchronous fluorimetry and H-point standard additions method, 325 (1996) 195

# Covalent immobilization

pH optical sensors based on sol-gels: Chemical doping versus covalent immobilization, 367 (1998) 159

Evaluating the quality of oligonucleotides that are immobilized on glass supports for biosensor development, 395 (1999) 273

#### CPE

Simultaneous cathodic stripping voltammetric determination of mercury, cobalt, nickel and palladium by mixed binder carbon paste electrode containing dimethylglyoxime, 333 (1996) 119

#### Cr(VI) determination

Resonance Rayleigh scattering of chromium(VI)-iodide-basic triphenylmethane dye systems and their analytical application, 379 (1999) 53

### Cramer's rule

Application of a new spectrophotometric method for the analysis of a ternary mixture containing metamizol, paracetamol and caffeine in tablets, 359 (1998) 93

### Creatinase

A highly sensitive amperometric creatinine sensor, 351 (1997) 151

### Creatine

Microfabricated amperometric creatine and creatinine biosensors, 319 (1996) 335

Bienzymatic potentiometric electrodes for creatine and L-arginine determination, 333 (1996) 215

# Creatine amidinohydrolase

Comparison of flow injection analytical biosystems based on opentube and packed-bed enzyme reactors, 370 (1998) 47

### Creatine kinase

A transient enzymatic inhibition as an efficient tool for the discriminating bioluminescent analysis of three adenylic nucleotides with a fiberoptic sensor based on a compartmentalized trienzymatic sensing layer, 360 (1998) 89

Determination of creatine kinase activity and phosphocreatine in off-line and on-line modes with capillary electrophoresis, 375 (1998) 233

### Creatine/creatinine

Hydrogel matrix for three enzyme entrapment in creatine/creatinine amperometric biosensing, 325 (1996) 161

#### Creatininase

A highly sensitive amperometric creatinine sensor, 351 (1997) 151

#### Creatinine

Multicommutation in flow analysis. Part 3. Spectrophotometric kinetic determination of creatinine in urine exploiting a novel zone sampling approach, 310 (1995) 447

A simple and fast method to determine and quantify urinary creatinine, 312 (1995) 79

Microfabricated amperometric creatine and creatinine biosensors, 319 (1996) 335

Disposable creatinine sensor based on thick-film hydrogen peroxide electrode system, 394 (1999) 225

# Creatinine iminohydrolase

Comparison of flow injection analytical biosystems based on opentube and packed-bed enzyme reactors, 370 (1998) 47

#### Creatinine sensor

A highly sensitive amperometric creatinine sensor, 351 (1997) 151

#### Cresols

Use of cobalt(II) phthalocyanine to improve the sensitivity and stability of glassy carbon electrodes for the detection of cresols, chlorophenols and phenol, 354 (1997) 307

### Cresyl Violet

Pesticide determination by stopped-flow fluoroimmunoassay using Cresyl Violet as label, 381 (1999) 147

# Crop samples

Determination of carbamate residues in crop samples by cholinesterase-based biosensors and chromatographic techniques, 362 (1998) 59

### Crops

Analysis of pyraclofos in crops by the Swedish National Food Administration gas chromatographic multiresidue methodology, 338 (1997) 63

# Cross reactivity

Development of an enzyme-linked immunosorbent assay (ELISA) for antitumor agent MKT 077, 362 (1998) 177

### Cross-flow filtration

Measurement of electrokinetic and size characteristics of estuarine colloids by dynamic light scattering spectroscopy, 331 (1996) 1

# Cross-link cleavages

Energetics of cross-ring cleavages and their relevance to the linkage determination of oligosaccharides, 307 (1995) 431

# Cross-linking

Applications of gel electrophoresis in the determination of protein low  $M_r$  substances and protein—protein interactions, 372 (1998)

# Cross-polarization magic angle spinning <sup>13</sup>C nuclear magnetic resonance

Study of soil humic substances by cross-polarization magic angle spinning <sup>13</sup>C nuclear magnetic resonance and pyrolysis-capillary gas chromatography, 378 (1999) 177

# Cross-reactivity

A procedure for the immunoanalysis of samples containing one or more members of a group of cross-reacting analytes, 336 (1996) 175

Multianalyte effect in the determination of cross-reactivities of pesticide immunoassays in water matrices, 347 (1997) 121

Effect of competitor design on immunoassay specificity: Development and evaluation of an enzyme-linked immunosorbent assay for 2.4-dinitrophenol, 387 (1999) 267

# Cross-sections

Resolution of overlapping peaks in HPLC with diode array detection by application of partial least squares calibration to cross-sections of spectrochromatograms, 348 (1997) 177

# Cross-sensitivity estimation

Chemical sensor array for multicomponent analysis of biological liquids, 385 (1999) 131

#### 18-Crown-6

Fluorometric determination of N<sup>1</sup>-methylnicotinamide in human urine and serum by liquid chromatography postcolumn photoirradiation with a mobile phase containing 18-crown-6, 363 (1998) 133

# Crown ethers

Chromoionophores derived from a coumarin linked to monoaza- and diaza-crown ethers: formation of divalent 3d metal complexes, 302 (1995) 341

Detection of polar organic vapours with piezoelectric crystals coated with crown ethers, 306 (1995) 129

Organic ammonium ion selective electrodes based on 18-crown-6phosphotungstic acid precipitates, 324 (1996) 125

Application of crown ethers as modifiers for the separation of amines by capillary electrophoresis, 360 (1998) 69

Liquid-liquid extraction of cationic metal complexes with p-nonylphenol solvent: Application to crown and thiacrown ether complexes of lead (II) and copper (II), 363 (1998) 165

Simultaneous determination of common mono- and divalent cations in natural water samples by conductimetric detection ion chromatography with an unmodified silica gel column and oxalic acid/18-crown-6 as eluent, 381 (1999) 265

# 18-crown-6-ether

Chemiluminescence of β-lactam antibiotics following oxidation by potassium superoxide, 338 (1997) 1

# Crude extract

Zucchini crude extract-palladium-modified carbon paste electrode for the determination of hydroquinone in photographic developers, 398 (1999) 145

L-Cysteine determination using a polyphenol oxidase-based inhibition flow injection procedure, 399 (1999) 287

### Crude oil

Numerical simulation of crude oil behaviour from chromatographic data, 317 (1995) 107

Acidic and non-acidic products from the photo-oxidation of the crude oil component dibenzothiophene dissolved in seawater, 392 (1999) 19

# Cryo-hydrogel

Hydrazines probe of interaction of horseradish peroxidase with cryo-hydrogel, 353 (1997) 45

### Cryptand

Inhibition of Pb redistribution by two complexing agents (cryptand and NTA) during a sequential extraction of soil models, 347 (1997) 313

Preparation and application of cryptand-coated piezoelectric crystal gas-chromatographic detector, 360 (1998) 61

Piezoelectric cryptand-coated quartz crystal liquid chromatographic detector for cations/anions and polar organic molecules in solutions, 392 (1999) 125

Quantitative extraction separation systems of alkali and alkaline earth metal ions using cryptands as ion-size selective masking reagents, 394 (1999) 317

# Crystal seeding

Crystal seeding in flow-injection turbidimetry: determination of total sulfur in plants, 308 (1995) 269

### Crystal structures

Scanning tunneling microscopic observations of commensurate crystalline structures for horizontally deposited cadmium stearate bilayers on graphite, 307 (1995) 377

### Crystalline silica

Accurate quantification of quartz and other phases by powder X-ray diffractometry, 337 (1997) 233

# Crystallinity

Factor analysis of time domain NMR data: crystallinity of poly(tetrafluoroethene), 344 (1997) 261

Factor analysis of simulated time domain NMR data for semicrystalline polymers, 356 (1997) 27

### C6-spacer

Production and characterization of sulforhodamine B containing large unilamellar vesicles labeled with atrazine, 399 (1999) 185

### CSPD

Optimization of a charge coupled device imaging enzyme linked immuno sorbent assay and supports for the simultaneous determination of multiple 2,4-D samples, 347 (1997) 87

### CTAB

Sensitivity enhancement of the methylene blue catalytic-spectrophotometric method of selenium(IV) determination by CTAB, 335 (1996) 155

Open tubular capillary electrochromatography with adsorbed stationary phase, 378 (1999) 73

# c-Type cytochromes

Membrane-assembly of carbon microelectrodes for the electrochemical study of redox proteins, 353 (1997) 53

### Cu

Assessment of a screening method for metals in seawater based on the non-selective reagent 4-(2-pyridylazo)resorcinol (PAR), 371 (1998) 227 Speciation of copper and manganese in milk by solid-phase extraction/inductively coupled plasma-atomic emission spectrometry, 375 (1998) 299

#### CutH

Influence of Triton X-100 in stripping potentiometry, 333 (1996) 233

#### Cu(II) ion-selective electrode

Effect of dissolved oxygen on the response of Cu(II) ion-selective electrodes in metal buffer solutions, 395 (1999) 53

#### Cu(II) preconcentration

Design and construction of a flow system for determination of Cu(II) ions in water by means of a chemically modified carbon paste electrode, 335 (1996) 275

# CuAgSe-electroplated membranes

Flow injection discrimination of the chloride interference with Cu(II) electrode function of chalcogenide based solid-state copper ion-selective electrodes, 362 (1998) 221

# Cubic spline differentiation

Fourth derivative spectroscopy - a critical view, 349 (1997) 295

#### Cultivation

On-line monitoring of glucose and penicillin by sequential injection analysis, 320 (1996) 199

On-line monitoring of a cultivation using an electronic nose, 361 (1998) 223

# Cupferron

Study of the reduction mechanism and the adsorption properties of uranium(VI)-cupferron complexes using various electrochemical techniques, 304 (1995) 177

# Cupric hexacyanoferrate

Glucose microsensors based on carbon paste enzyme electrodes modified with cupric hexacyanoferrate, 395 (1999) 11

# Cuprizone

Flow-injection spectrophotometric determination of copper using bis(cyclohexanone) oxalyldihydrazone, 304 (1995) 97

# Curing

Fast Fourier transform admittance analysis method applied to thickness-shear-mode acoustic wave sensors, 353 (1997) 29

### Curium

Determination of low concentrations of americium and curium by photon/electron rejecting alpha liquid scintillation, 363 (1998) 279

### Current transducer

A simple current transducer for ultramicroelectrode measurements at a wide range of time scales, 321 (1996) 209

### Current-time response

Theoretical treatment of the current vs. time response of microelectrode arrays to changes of potential, concentration, or flow, 341 (1997) 121

#### Curve fitting

Evaluation of a predictive steady-state flow-injection method adapted to an open flow tube with a tracer, 303 (1995) 199

Curve fitting to resolve overlapping voltammetric peaks: model and examples, 304 (1995) 1

A low cost, open and flexible on-line data acquisition system for instrumental chromatography, 306 (1995) 285

Enhanced selectivity of MOSFET gas sensors by systematical analysis of transient parameters, 353 (1997) 291

Determination of the diffusion coefficient of 1-(2'-pyridylazo)-2naphthol in ethanol-water solutions using flow injection and nuclear magnetic resonance techniques, 386 (1999) 137

#### Curve resolution

Influence of selectivity and polyelectrolyte effects on the performance of soft-modelling and hard-modelling approaches applied to the study of acid-base equilibria of polyelectrolytes by spectrometric titrations, 331 (1996) 195

Assessment of new constraints applied to the alternating least squares method, 346 (1997) 307

A method for the determination of reaction mechanisms and rate constants from two-way spectroscopic data, 373 (1998) 83

Zinc-binding properties of the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: analysis by differential pulse polarography and multivariate curve resolution, 385 (1999) 353

Quality of resolution of black multicomponent systems, 390 (1999)

Application of curve resolution based methods to kinetic data, 396 (1999) 231

# Cu<sub>2-x</sub>Se-electroplated membranes

Flow injection discrimination of the chloride interference with Cu(II) electrode function of chalcogenide based solid-state copper ion-selective electrodes, 362 (1998) 221

# CVAAS

Solid phase extraction and determination of ultra trace amounts of mercury(II) using octadecyl silica membrane disks modified by hexathia-18-crown-6-tetraone and cold vapour atomic absorption spectrometry, 355 (1997) 69

### Cyanex-923

Chemical separation and inductively coupled plasma-atomic emission spectrometric determination of seventeen trace metals in thorium oxide matrix using a novel extractant - Cyanex-923, 370 (1998) 163

# Cyanex 925

Selective separation of lanthanides by supported liquid membranes containing Cyanex 925 as a carrier, 387 (1999) 77

# Cyanidation process

Modelling and optimization of cyanidation process. A chemometric approach by regression analysis, 367 (1998) 123

# Cvanide

A flow-injection type chemiluminescence-based sensor for cyanide, 304 (1995) 369

- Use of arylidenerhodanines for the determination of Cu(II), Hg(II) and CN<sup>-</sup>, 307 (1995) 127
- A biosensor as warning device for the detection of cyanide, chlorophenols, atrazine and carbamate pesticides, 311 (1995) 255
- Determination of trace cyanide in 3-guanidinopropionic acid by stripping preconcentration/isolation followed by flow-injection analysis with amperometric detection at silver, 313 (1995) 75
- A novel biosensor system for cyanide based on a chemiluminescence reaction, 329 (1996) 111
- A coulometer for determination of residual sulfite following the dechlorination of water, 332 (1996) 155
- Study of equilibria in cyanide systems by gas-diffusion measurement of hydrogen cyanide, 336 (1996) 131
- Preconcentration with membrane cell and adsorptive polarographic determination of cyanides in air, 382 (1999) 283

# Cyanide degrading bacteria

A novel microbial sensor for the determination of cyanide, 313 (1995) 69

# Cyanide determination

- Determination of cyanide as tetracyanonickelate(II) by flow injection and spectrophotometric detection, 357 (1997) 103
- On-line determination of cyanide in the presence of sulfide by flow injection with pervaporation, 390 (1999) 133

#### Cyanide ions

Cyanide ion minisensor based on methemoglobin incorporated in metal supported self-assembled bilayer lipid membranes and modified with platelet-activating factor, 355 (1997) 227

### Cvanide quantitation

A fluorescence flow injection method for the quantitation of cyanide: its application to the quantitation of bound cyanide in cassava using an immobilized linamarase bioreactor, 354 (1997) 189

# Cyanine dyes

- A cyanine fluorophore with a hydrazide functionality as labelling reagent for aldehydes in liquid chromatography, 311 (1995) 47
- Comparative spectrophotometric study of the complexation and extraction of tellurium with various halide ions and N.N-di(acetoxyethyl)indocarbocyanine, 386 (1999) 161

# Cyanoacrylate

Base-activated latent fingerprints fumed with a cyanoacrylate monomer. A quantitative study using Fourier-transform infra-red spectroscopy, 362 (1998) 171

# Cyanobacteria

- Quantitative determination of cyanobacteria in mixed phytoplankton assemblages by an in vivo fluorimetric method, 302 (1995) 81
- Chromatography of microcystins, 352 (1997) 277
- Development of a bioanalytical phosphatase inhibition test for the monitoring of microcystins in environmental water samples, 394 (1999) 243

# Cyanobacterial toxin

Total microcystin determination using erythro-2-methyl-3-(methoxy-d<sub>3</sub>)-4-phenylbutyric acid (MMPB-d<sub>3</sub>) as the internal standard, 386 (1999) 107

### Cyclam

- Voltammetric investigation of the complexation equilibria in the presence of a low level of supporting electrolyte. Experiments with an inert complex, 377 (1998) 29
- Modified electrode surfaces for catalytic reduction of carbon dioxide, 396 (1999) 1

# Cyclamate

Flow-injection spectrophotometric determination of cyclamate in sweetener products with sodium 1,2-naphthoquinone-4-sulfonate, 381 (1999) 307

# Cyclen

A differential pulse polarographic study of bismuth<sup>III</sup> complexes with macrocyclic ligands 1,4,7,10-tetraazacyclododecane and 1,4,7,10-tetrakis (2-hydroxypropyl)-1,4,7,10-tetraazacyclododecane. An out-of-cell determination of stability constants of polarographically active and inactive bismuth complexes at fixed ligand to metal ratio and various pH values, 372 (1998) 323

### Cyclic

Electrocatalysis by a C<sub>60</sub>-γ-cyclodextrin (1:2) and nafion chemically modified electrode of hemoglobin, 356 (1997) 225

# Cyclic peptides

Chromatography of microcystins, 352 (1997) 277

# Cyclic voltammetry

- Study of the reduction mechanism and the adsorption properties of uranium(VI)-cupferron complexes using various electrochemical techniques, 304 (1995) 177
- First direct interfacial electron transfer between a biomolecule and a solid electrode in non-aqueous media: direct electrochemistry of microperoxidase-11 at glassy carbon in dimethyl sulfoxide solution, 307 (1995) 245
- Factors that influence the stability of self-assembled organothiols on gold under electrochemical conditions, 307 (1995) 253
- Adsorptive complex catalytic polarographic determination of germanium in soils and vegetables, 309 (1995) 103
- On-line electrochemistry-liquid chromatography with UV absorbance detection for elucidating the electrochemical oxidation mechanism of α-tocopherol in methanol, 309 (1995) 111
- The electrochemistry of monobutyltin and mixtures of butyltin compounds at mercury electrodes in aqueous media, 310 (1995) 109
- Kinetics and performance of a mediated biosensor for hypoxanthine using deflavo xanthine oxidase, 319 (1996) 325
- Study of acetaminophen by parallel incident spectroelectrochemistry, 342 (1997) 13
- Electrochemical analysis of formation of polynucleotide complexes in solution and at electrode surfaces, 344 (1997) 65
- Use of cobalt(II) phthalocyanine to improve the sensitivity and stability of glassy carbon electrodes for the detection of cresols, chlorophenols and phenol, 354 (1997) 307

- Carbon felt composite electrodes and their use in electrochemical sensing: a biosensor based on alcohol dehydrogenase, 358 (1998) 15
- Parallel incident spectroelectrochemistry study of chloramphenicol, 363 (1998) 67
- Voltammetric studies of the interaction of daunomycin anticancer drug with DNA and analytical applications, 373 (1998) 29
- Voltammetric and spectroscopic studies of the oxidation of the antioxidant drug dipyridamole in acetonitrile and ethanol, 375 (1998) 223
- Cathophoresis paint insulated carbon fibre ultramicro disc electrode and its application to in vivo amperometric monitoring of quantal secretion from single rat melanotrophs, 378 (1999) 135
- Electrochemical behaviour of triclosan at a screen-printed carbon electrode and its voltammetric determination in toothpaste and mouthrinse products, 390 (1999) 107
- Evaluation of n-substituted aminosulfonic acid pH buffers with a morpholinic ring for cadmium and lead speciation studies by electroanalytical techniques, 394 (1999) 325
- D1 protein an effective substitute for immunoglobulins in ELISA for the detection of photosynthesis inhibiting herbicides, 398 (1999) 49
- Analysis of chemical dynamics in microenvironments, 400 (1999) 5

# Cyclic voltammogram

An integrated three-electrode system with a micromachined liquidjunction Ag/AgCl reference electrode, 387 (1999) 103

#### Cyclodextrin

- Direct determination of diastereomeric <sup>13</sup>C-labeled ketoprofen glucuronides in human urine by nuclear magnetic resonance spectroscopy, 334 (1996) 67
- Study of new facile deoxygenation methods in cyclodextrin induced room temperature phosphorescence, 357 (1997) 119

### **B-Cyclodextrin**

- Amperometric biosensor sensitive to glucose and lactose based on co-immobilization of ferrocene, glucose oxidase, β-galactosidase and mutarotase in β-cyclodextrin polymer, 358 (1998) 137
- Study on the chiral separation of basic drugs by capillary zone electrophoresis using  $\beta$ -CD and derivatized  $\beta$ -CDs as chiral selectors, 359 (1998) 39
- Supramolecular inclusion complex formation and application of βcyclodextrin with heteroanthracene ring cationic dyes, 389 (1999) 291

# **β-Cyclodextrin complexes**

QSAR study of inclusion complexes of heterocyclic compounds with β-cyclodextrin, 348 (1997) 489

# Cyclodextrin derivatives

Chiral separation of several naphthalenesulfonylamino acids by capillary zone electrophoresis with selectively methylated cyclodextrin derivatives, 357 (1997) 177

# β-Cyclodextrin derivatives

Study on the chiral separation of basic drugs by capillary zone electrophoresis using  $\beta$ -CD and derivatized  $\beta$ -CDs as chiral selectors, 359 (1998) 39

# β-Cyclodextrin polymer

- β-Cyclodextrin cation exchange polymer membrane for improved second-generation glucose biosensors, 306 (1995) 201
- Adsorbed resin phase spectrophotometric determination of nickel, 363 (1998) 295
- Determination of trace amounts of manganese by β-cyclodextrin polymer solid phase spectrophotometry using 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol, 392 (1999) 247

# Cyclodextrins

- Modified β-cylclodextrins as enhancers of fluorescence emission of carbazole alkaloid derivatives, 303 (1995) 47
- Thermodynamic investigation of sample retention mechanism in ion-exclusion chromatography with inclusion compound in the mobile phase, 306 (1995) 267
- Nuclear magnetic resonance spectroscopic analysis of the selective complexation of the cis and trans isomers of phenylalanylproline by β-cyclodextrin, 307 (1995) 449
- A regenerable pseudo-reagentless glucose biosensor based on Nafion polymer and 1,1'-dimethylferricinium mediator, 310 (1995) 419
- Determination of the formation constant for the inclusion complex between rutin and methyl-β-cyclodextrin, 315 (1995) 357
- Enantiomeric separation of dansylamino acids by capillary zone electrophoresis with selectively methylated γ-cyclodextrin derivatives, 316 (1995) 121
- α-Cyclodextrin as a restricted access mobile phase for reversedphase liquid chromatography with fluorimetric detection of phenolic compounds, 328 (1996) 73
- A simple alternative determination of the formation constant for the inclusion complex between rutin and β-cyclodextrin, 329 (1996)
- Formation constants of polynuclear aromatic compounds and βcyclodextrin inclusion complexes in β-cyclodextrin modified mobile phase high performance liquid chromatography system, 344 (1997) 137
- Cyclodextrin-enhanced fluorescence and photochemically-induced fluorescence determination of five aromatic pesticides in water, 360 (1998) 129
- Room-temperature phosphorescence of acenaphthene in aerated solutions in the presence of bromoalcohols and γ-cyclodextrin, 370 (1998) 199

# Cyclodextrins analysis

Separation and determination of cyclodextrins by capillary electrophoresis with amperometric detection, 369 (1998) 39

# 2-cyclohexanedicarboxanilic acid

4.4'-Dinitrocarbanilide – hapten development utilizing molecular models, 376 (1998) 139

# Cyclohexylamine

Flow-injection and stopped-flow completely continuous flow spectrophotometric determinations of aniline and cyclohexylamine, 396 (1999) 151

# Cyclohexylaminoglutethimide

Enantiomeric separation of some piperidine-2,6-dione drugs on tolylcellulose by liquid chromatography, 346 (1997) 183

# Cyclopeptide

Interaction between volatile organic compounds and cyclopeptides detected with reflectometric interference spectroscopy, 392 (1999) 213

### Cyclosporin A

Liquid chromatographic determination of cyclosporin A using aryl oxalate chemiluminescence detection, 303 (1995) 333

# Cylindrical microelectrodes

Simultaneous joule heating and potential cycling of cylindrical microelectrodes, 305 (1995) 232

Analytical performance of cylindrical carbon fiber microelectrodes in low-permitivity organic solvents: determination of vanillin in ethyl acetate, 385 (1999) 241

# Cyro-hydrogel

Cyro-hydrogel for the construction of a tyrosinase-based biosensor, 319 (1996) 71

# Cys-containing peptide

Complexation of cadmium by the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: study by differential pulse polarography and circular dichroism spectroscopy with multivariate curve resolution analysis, 390 (1999) 15

# Cysteamine

Hydrogen peroxide sensor based on horseradish peroxidase-labeled Au colloids immobilized on gold electrode surface by cysteamine monolayer, 391 (1999) 73

### Cysteine

Cysteine enhancement of the cryogenic trap hydride AAS determination of dissolved arsenic species, 333 (1996) 89

Hexadecylpyridinium chloride micelles for the simultaneous kinetic determination of cysteine and cystine by their induction of the iodine-azide reaction, 337 (1997) 341

Use of pH gradients in continuous-flow systems and multivariate regression techniques applied to the determination of methionine and cysteine in pharmaceuticals, 348 (1997) 151

Solid electrodes from refractory powder materials prepared for electroanalytical purposes by a novel method, 364 (1998) 181

### Cystine

Hexadecylpyridinium chloride micelles for the simultaneous kinetic determination of cysteine and cystine by their induction of the iodine-azide reaction, 337 (1997) 341

# Cytochrome c

Imidazole modified silver electrode and its application to the investigation of the electrochemistry of cytochrome c, 319 (1996) 275

# Cytochrome P-450 IVA1

Determination of phthalate-induced rat liver cytochrome P-450 IVA1 by a fluorimetric enzymatic assay and by chemiluminescence detection on Western blots, 303 (1995) 99

### CZE

Analytical and preparative capillary zone electrophoresis of opioid peptides, 383 (1999) 79

# CZE-LIF

Derivatization of peptides and small proteins for improved identification and detection in capillary zone electrophoresis (CZE), 400 (1999) 181



#### 2,4-D

Optimization of a charge coupled device imaging enzyme linked immuno sorbent assay and supports for the simultaneous determination of multiple 2,4-D samples, 347 (1997) 87

Highly parallel affinity sensor for the detection of environmental contaminants in water, 393 (1999) 29

#### 2D Correlation analysis

Effects of static spectrum removal and noise on 2D-correlation spectra of kinetic data, 368 (1998) 45

# D1 protein

D1 protein – an effective substitute for immunoglobulins in ELISA for the detection of photosynthesis inhibiting herbicides, 398 (1999) 49

### Dactilysin

Peptides as tools for studying propertide and proprotein processing, 352 (1997) 155

# Dairy products

Determination of phosphorus in dairy products by sample wet digestion in a microwave oven, 309 (1995) 355

Selective extraction of polychlorinated biphenyls from dairy products using steam distillation—solvent extraction at normal pressure, 376 (1998) 313

Flow-injection analysis of Kjeldahl nitrogen in milk and dairy products by potentiometric detection, 385 (1999) 437

# **D-Amino** acids

Hydrolysis of proteins performed at high temperatures and for short times with reduced racemization, in order to determine the enantiomers of D - and L-amino acids, 339 (1997) 99

Monitoring of α-helical secondary structures in peptides by reversed-phase HPLC of replacement sets, 352 (1997) 365

### Damped oscillation

Physical stimuli and emotional stress-induced sweat secretions in the human palm and forehead, 365 (1998) 319

# **D-Amygdalin**

A potentiometric biosensor for p-amygdalin based on a consolidated biocomposite membrane, 391 (1999) 65

# Dansyl amino acids

Signal enhancement of dansyl amino acids by fluorimetric detection with a packed flow cell in microcolumn liquid chromatography, 311 (1995) 231

### Dansyl chloride

Room temperature phosphorescence properties of dansyl chloride and its derivatives, 312 (1995) 345

Room-temperature phosphorescence of dansyl chloride solution in the absence of protective medium and its medium effect, 341 (1997) 241

Off-line dansylation of amines using C<sub>18</sub> solid-phase packings: study of the fluorescence and chemiluminescence detection by post-column derivatization with oxalic acid bis(2, 4, 6-trichloro phenyl ester)/H<sub>2</sub>O<sub>2</sub> in liquid chromatography. Determination of amphetamines in urine samples, 378 (1999) 83

### Dansylamino acids

Enantiomeric separation of dansylamino acids by capillary zone electrophoresis with selectively methylated γ-cyclodextrin derivatives, 316 (1995) 121

Chiral separation of several amino acid derivatives by capillary zone electrophoresis with selectively acetylated β-cyclodextrin derivatives, 373 (1998) 47

#### Dansylation

Extraction of dansylated amino acids using the supported liquid membrane technique, 337 (1997) 183

# Dansyloxyamine DNSOA

A new fluorescent probe for sensitive detection of carbonyl compounds, 382 (1999) 253

#### DASA

Speciation determination of aluminium (Al<sup>3+</sup>) by flow injection amperometry via the 1,2-dihydroxyanthraquinone-3-sulfonic acid complex, 349 (1997) 111

# Data compression

The prediction of coal properties using compressed infrared data from osculating polynomials, 340 (1997) 233

# Data integrity

The role of laboratory information management systems (LIMS) in analytical method validation, 391 (1999) 149

# Data management in chromatography

A low cost, open and flexible on-line data acquisition system for instrumental chromatography, 306 (1995) 285

### Data mining

Automatic generation of hypermedia, 348 (1997) 465

# Data processing

Systematic comparison of data-processing options for kinetic-based, single-component determinations of noncatalysts: Effects of random noise, 326 (1996) 95

Independent neural network modeling of class analogy for classification pattern recognition and optimization, 342 (1997) 223

Maximum entropy chromatogram reconstruction, 371 (1998) 1

# Data projection

Linear data projection using a feedforward neural network, 348 (1997) 495

#### Data structures

Calibration method choice by comparison of model basis functions to the theoretical instrumental response function, 348 (1997)

# **Databases**

Computer-assisted IR spectra prediction – linked similarity searches for structures and spectra, 348 (1997) 327

Automatic generation of hypermedia, 348 (1997) 465

Predicting chance infrared spectroscopic matching frequencies, 370 (1998) 181

Which IR search system is better for selection of unknown structure analogues? 396 (1999) 99

# Data-processing

A computational study on the effect of random noise on the precision and accuracy of the integration of chromatographic peaks, 388 (1999) 187

# **Data-processing options**

Evaluation of alternative measurement and data-processing options for enzyme-based biosensors, 388 (1999) 231

#### Daunomycin

Voltammetric studies of the interaction of daunomycin anticancer drug with DNA and analytical applications, 373 (1998) 29

# David-Fletcher-Powell algorithm

Application of the Davidon-Fletcher-Powell algorithm to the resolution of multicomponent mixtures using UV-vis spectrophotometry, 327 (1996) 145

# DAX analyzers

Evaluation of the ion selective electrodes module in the DAX analyzers, 305 (1995) 304

### **D-bifunctional protein**

Separation of stereoisomers of C<sub>27</sub>-bile acid CoA esters by liquid chromatography and its application to the study of the stereospecificities of D- and L-bifunctional proteins in bile acid biosynthesis, 365 (1998) 249

### DCP-AES

Multivariate data analysis as a tool for evaluating emission intensity, background equivalent concentration and detection limit obtained for different plasma positions in direct current plasma-atomic emission spectrometry, 354 (1997) 211

# **DDT-type** pesticides

A sensitive fluorescence probe for DDT-type pesticides, 368 (1998) 77

# 2-DE

Electrophoretic characterisation of the major cat parotid salivary protein, 372 (1998) 249

# Decalino subunit

Synthesis and cation-extraction study of chromogenic 14-crown-4 derivatives for spectrophotometric determination of lithium, 375 (1998) 81

# Decay of radicals

Radiosterilization dosimetry by electron-spin resonance spectroscopy: Cefotetan, 359 (1998) 107

### Decay processes

Optical saturation, diffusion and convection effects in thermal lens spectrometry, 307 (1995) 145

Optical saturation thermal lens spectrometry in non-polar solvents, 345 (1997) 257

#### Decay time

Determination of copper at ng ml<sup>-1</sup>-levels based on quenching of the europium chelate luminescence, 364 (1998) 125

Energy transfer-based lifetime sensing of chloride using a luminescent transition metal complex, 364 (1998) 143

# Decay time sensing

Microsecond lifetime-based optical carbon dioxide sensor using luminescence resonance energy transfer, 382 (1999) 67

#### Dechlorination

A coulometer for determination of residual sulfite following the dechlorination of water, 332 (1996) 155

Confirmation and method development for dechlorinated atrazine from reductive dehalogenation of atrazine with Fe<sup>0</sup>, 373 (1998) 153

# Decomposition method

Analysis of bioactive fluoride-containing calcium aluminosilicate glasses, 358 (1998) 79

# Deconvolution

Qualitative and quantitative evaluation of deconvolution for ion mobility spectrometry, 303 (1995) 163

Global treatment of chromatographic data with MICHROM, 348 (1997) 187

Comparative analysis of topographic distribution of acetylated histone H4 by using confocal microscopy and a deconvolution system, 365 (1998) 9

Optimisation of resolution function in signals ratio method and deconvolution by polynomial division – quantitation of Cd(II) and In(III) from their global signals obtained at carbon fibre disk ultramicroelectrode, 382 (1999) 105

Zinc-binding properties of the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: analysis by differential pulse polarography and multivariate curve resolution, 385 (1999) 353

# Dediazoniation and coupling reactions

A novel method for the determination of vitamin C in natural orange juices by electrochemical monitoring of dediazoniation of 3-methylbenzenediazonium tetrafluoroborate, 385 (1999) 373

### Deflavo enzyme

Kinetics and performance of a mediated biosensor for hypoxanthine using deflavo xanthine oxidase, 319 (1996) 325

# Degeneracy control

Design and evaluation of an improved simplex method, 371 (1998)

# Degenerate four-wave mixing

Forward-scattering degenerate four-wave mixing as a potential laser-based absorption detection method in liquid separation systems: Coupling to conventional-size liquid chromatography, 330 (1996) 189

light on the next millennium, 400 (1999) 281

#### Degradation

Serum stability of phosphopeptides, 352 (1997) 319

# Degrees of freedom

Critical evaluation of two F-tests for selecting the number of factors in abstract factor analysis, 337 (1997) 57

#### DEHPA

Concentration of amino acids using supported liquid membranes with di-2-ethylhexyl phosphoric acid as a carrier, 346 (1997) 191

#### Dehydrogenase

Reusable ethanol sensor based on a NAD\*-dependent dehydrogenase without coenzyme addition, 340 (1997) 143

Purification and sensor applications of an oxygen insensitive, thermophilic diaphorase, 345 (1997) 17

# Delay unit

A combined sampling and delay unit for flow injection analysis. The automated determination of 2-thiobarbituric acid reactive substances in foods, 322 (1996) 69

# **Delayed extraction**

Delayed extraction for improved resolution of ion/surface collision products by time-of-flight mass spectrometry, 397 (1999) 225

# Delayed fluorescence

Data analysis techniques for monitoring excited state kinetics, 348 (1997) 311

# **Demolition** waste

Selecting a representative training set for the classification of demolition waste using remote NIR sensing, 392 (1999) 67

# Denaturant-gradient gel electrophoresis

Denaturant-gradient gel electrophoresis: technical aspects and practical applications, 372 (1998) 99

# **Dendrimers**

Ferrocenyl silicon-based dendrimers as mediators in amperometric biosensors, 338 (1997) 191

Analytical characterization of supramolecular species – determination of ruthenium and osmium in dendrimers by electrothermal atomic absorption spectrometry, 375 (1998) 285

Spectrochemical investigations in dendritic media: evaluation of nitromethane as a selective fluorescence quenching agent in aqueous carboxylate-terminated polyamido amine (PAMAM) dendrimers, 397 (1999) 17

### Densitometer

NIST transmission density instrument, 380 (1999) 143

# Densitometry

Precise classification of virgin olive oils with various linoleic acid contents based on triacylglycerol analysis, 364 (1998) 83

# Density

Prediction of Simple Physical Properties of Mixed Solvent Systems by Artificial Neural Networks, 371 (1998) 117

#### Deoxycholic acid

Multi-analyte explosive detection using a fiber optic biosensor, 399 (1999) 13

# 2'-deoxycytidine

Preparation of a specific monoclonal antibody against 2'-deoxycytidine, 365 (1998) 121

# Deoxygenation

Approaches to in-line removal of dissolved oxygen in flow systems for process analysis, 332 (1996) 31

Study of new facile deoxygenation methods in cyclodextrin induced room temperature phosphorescence, 357 (1997) 119

### 2'-Deoxyguanosine

Formation of highly fluorescent adducts between 2'-deoxyguanosine and amino acids by ionizing radiation, 365 (1998) 183

#### Deposition range

Electrochemical metallisation of carbon electrodes, 373 (1998) 261

### Depth of modulation

Micro-interferometric backscatter detection using a diode laser, 400 (1999) 265

# Depth profile

Practical improvements for redox potential (E<sub>H</sub>) measurements and the application of a multiple-electrode redox probe (MERP) for characterising sediment in situ, 367 (1998) 201

### Derivative

Direct determination of silver at parts-per-billion level in waters by derivative atomic absorption spectrometry using the atom trapping technique, 353 (1997) 79

# Derivative potentiometric stripping analysis

Determination of lead in oil products by derivative potentiometric stripping analysis, 386 (1999) 41

# Derivative ratio spectrum method

A contribution to the derivative ratio spectrum method, 317 (1995) 83

# Derivative signal processing

Determination of mercury by cold vapour atomic absorption spectrometry with derivative signal processing, 395 (1999) 173

# Derivative spectrometry

Computer program for the determination of salicylic acid content in aspirin by derivative spectrometry, 333 (1996) 181

# Derivative spectrophotometry

Rapid simultaneous determination of ruthenium and osmium in aqueous solutions of their tetroxides by second-order derivative spectrophotometry, 349 (1997) 53

Derivative UV-visible spectrophotometric determination of nickel in alloys and biological samples after preconcentration with the ion pair of 2-nitroso-1-naphthol-4-sulfonic acid and tetradecyldimethylbenzylammonium chloride onto microcrystalline naphthalene or by a column method, 367 (1998) 55

Third derivative spectrophotometric determination of trace rhodium after pre-concentration with 2-(5-bromo-2-pyridylazo)-5-diethy-laminophenol chelate/tetraphenylborate ion pair on microcrystal-line naphthalene, 382 (1999) 339

Spectrophotometric resolution of ternary mixtures of Tartrazine, Patent Blue V and Indigo Carmine in commercial products, 391 (1999) 353

# Derivative spectroscopy

Step by step filter - an approach for noise reduction in the derivative UV-visible spectra, 324 (1996) 77

# Derivative synchronous

Application of computerized compensation method to derivative synchronous spectrofluorimetry. Analysis of floctafenine and floctafenic acid in plasma, 351 (1997) 211

#### Derivatization

Derivatization of peptides for their determination by chromatographic methods, 352 (1997) 31

Determination of acetaminophen by flow injection with on-line chemical derivatization: Investigations using visible and FTIR spectrophotometry, 364 (1998) 107

A new derivatization procedure for the determination of cephalexin with 1,2-naphthoquinone 4-sulphonate in pharmaceutical and urine samples using solid-phase extraction cartridges and UV-visible detection, 370 (1998) 115

A chemiluminescence derivatization method for detecting nucleic acids and DNA probes using a trimethoxyphenylglyoxal reagent that recognizes guanine, 381 (1999) 155

A new fluorescent probe for sensitive detection of carbonyl compounds, 382 (1999) 253

Determination of angiotensin II in blood-brain barrier permeability studies using microbore LC with p-nitrophenyl-2,5-dihydroxy-phenylacetate bis-tetrahydropyranyl ether as a pre-separation electrochemical labeling reagent, 394 (1999) 299

Derivatization of peptides and small proteins for improved identification and detection in capillary zone electrophoresis (CZE), 400 (1999) 181

# **Derivatization of amines**

Derivatization of amines in solid-phase extraction supports with 9fluorenylmethyl chloroformate for liquid chromatography, 344 (1997) 125

# Derivatization reagent

A new derivatization reagent 2-(pentafluorophenoxy)ethyl 2-(piperidino)ethanesulfonate for gas chromatography, 386 (1999) 113

# Derivatization techniques

Evaluation of derivatization techniques for the analysis of organotin compounds in biological tissue, 338 (1997) 51

### Derringer's desirability function

Study of different criteria for the selection of a rugged optimum in high performance liquid chromatography optimisation, 348 (1997) 223

### Desalting

Comparison of microscale cleaning procedures for (Glyco) proteins prior to positive ion matrix-assisted laser desorption ionization mass spectrometry, 372 (1998) 187

### Descriptors

The development of a quantitative structure property relationship (QSPR) for the prediction of dielectric constants using neural networks, 384 (1999) 285

### Desferrioxamine B

The use of voltammetry for sorption studies of heavy metals on mineral surfaces in presence of the siderophore desferrioxamine B. 392 (1999) 159

#### Desolvation

Membrane desolvation for the analysis of organic solutions and liquid chromatographic samples with low power helium microwave induced plasma atomic emission detection, 390 (1999) 217

### Desorption

Influence of Triton X-100 in stripping potentiometry, 333 (1996) 233

Electrochemical behavior of FAD at a gold electrode studied by electrochemical quartz crystal microbalance, 338 (1997) 97

### Desorption chemical ionization

Mass spectrometric analysis of additives in polymer extracts by desorption chemical ionization and collisional induced dissociation with B/E linked scanning, 311 (1995) 153

Microstructure of alkoxy and alkyl substituted isocyanate copolymers determined by desorption chemical ionization mass spectrometry, 356 (1997) 149

### Destructive analysis

Analysis of bioactive fluoride-containing calcium aluminosilicate glasses, 358 (1998) 79

### DET diffusion

Diffusional characteristics of hydrogels used in DGT and DET techniques, 398 (1999) 329

### Detection

Determination of 5-hydroxytryptamine (serotonin) and related indoles by flow injection analysis with acidic potassium permanganate chemiluminescence detection, 362 (1998) 131

Highly sensitive assay of DNA abasic sites in mammalian cellsoptimization of the aldehyde reactive probe method, 365 (1998)

Electrocatalysis of the oxidation of alcohol and phenol derivative pollutants at vitreous carbon electrode coated by nickel macrocyclic complex-based films, 378 (1999) 159

Effect of AC voltage frequency on the sensitivity of conductometric detection in microseparation techniques, 390 (1999) 101

Nomenclature in evaluation of analytical methods including detection and quantification capabilities, 391 (1995) 105 Detection and quantification limits: origins and historical overview, 391 (1999) 127

#### **Detection limit estimation**

Electrothermic factors optimization in electrothermal atomic absorption spectrometry via an optimal experimental design matrix, 368 (1998) 59

### Detection limit, responses below

Treatment of responses below the detection limit: some current techniques compared by Factor Analysis on environmental data, 354 (1997) 255

### **Detection limits**

Design of experiments for the determination of the detection limit in chemical analysis, 306 (1995) 301

### Detection parallel analysis

Multiplex sample NMR: an approach to high-throughput NMR using a parallel coil probe, 397 (1999) 9

#### Detector

On-line electrogenerated Ru(bpy)<sub>3</sub><sup>3+</sup> chemiluminescent detection of β-blockers separated with capillary electrophoresis, 347 (1997) 289

### Detergent model

Immobilization of aqueous pyrene by dissolved humic acid, 356 (1997) 295

### **Detergent titration**

Development of a new ion-selective field-effect transistor sensor for anionic surfactants: Application to potentiometric titrations, 382 (1999) 157

# Detergents

Potentiometric analysis of ionic surfactants by a new type of ionselective electrode, 349 (1997) 59

Electrophoresis of hydrophobic proteins, 383 (1999) 101

### Determination

Computer program for the determination of salicylic acid content in aspirin by derivative spectrometry, 333 (1996) 181

Determination of organomercury compounds using immobilized peroxidase, 344 (1997) 145

Liquid chromatography of peptides treated with fluorogenic reagents and its application to analyses of opioid peptides, their precursors and related enzymes in rat brain, 352 (1997) 103

Simultaneous determination of serum and urinary hydroxyproline and proline by liquid chromatography using two fluorescent labeling reagents, 365 (1998) 219

Quantitative millimetre wavelength spectrometry. Part IV. Response curves for oxygen in carbon dioxide and nitrogen at 60 GHz, 367 (1998) 245

Determination of arsenic, antimony, selenium, tellurium and bismuth in nickel metal by hydride generation atomic fluorescence spectrometry, 371 (1998) 109

Biosensors for L-malate and L-lactate based on solid binding matrix, 379 (1999) 193 Fluorescein mercury(II) acetate and sodium fluorescein as reagents for the determination of bis(2-chloroethyl)sulfide by fluorescence quenching, 387 (1999) 207

Selective and sensitive spectrophotometric determination of total vanadium with hydrogen peroxide and 4-(2-pyridylazo)-resorcinol, 389 (1999) 275

### **Determination of copper**

Potentiometric stripping analysis of copper using cysteine modified mercury film electrode, 373 (1998) 39

# Determination of enzyme activity

Simultaneous determination of α-amylase and amyloglucosidase activities using flow injection analysis with fourier transform infrared spectroscopic detection and partial least-squares data treatment, 366 (1998) 35

#### Determination of mitomycin C in urine

Voltammetric determination of mitomycin C in the presence of other anti-cancer drugs and in urine, 358 (1998) 45

### Determination of nickel

Porphyrins as carrier in PVC based membrane potentiometric sensors for nickel(II), 355 (1997) 33

### **Determination of sulfur**

Rapid determination of sulfur in steel by electrolytic dissolution – inductively coupled plasma atomic emission spectrometry, 394 (1999) 293

### Determn

Square-wave adsorptive stripping voltammetry at glassy carbon electrode for selective determination of manganese. Application to some industrial samples, 370 (1998) 239

### Deuterium

Determination of the oxygen-18 and deuterium content of fruit and vegetable juice water An European inter-laboratory comparison study, 302 (1995) 29

Site-specific natural isotope fractionation in fruit juices determined by deuterium NMR An European inter-laboratory comparison study, 321 (1996) 137

### Development

Quality assurance good practice for research and development and non-routine analysis, 393 (1999) 157

# Development of FIA

Flow-injection analysis: leaving its teen-years and maturing. A personal reminiscence of its conception and early development, 308 (1995) 3

### Dexamethasone

Determination of betamethasone and dexamethasone in plasma by fluorogenic derivatization and liquid chromatography, 307 (1995) 103

# Dextrans

Chiral separations using heparin and dextran sulfate in capillary zone electrophoresis, 307 (1995) 185 Competitive-binding assay method based on fluorescence quenching of ligands held in close proximity by a multivalent receptor, 345 (1997) 203

#### **DFP** detection

An enzyme based biosensor for the direct determination of diisopropyl fluorophosphate, 389 (1999) 189

### D-glucos

Aldose dehydrogenase-modified carbon paste electrodes as amperometric aldose sensors, 302 (1995) 233

#### p-glucose determination

Sequential injection determination of D-glucose by chemiluminescence using an open tubular immobilised enzyme reactor, 326 (1996) 1

#### DGT

Performance characteristics for the measurement of Cs and Sr by diffusive gradients in thin films (DGT), 368 (1998) 243

Diffusional characteristics of hydrogels used in DGT and DET techniques, 398 (1999) 329

### Di- and tri-peptides

Enantiometric separation of di- and tri-peptides with chiral fluorescence labeling reagents by liquid chromatography, 314 (1995) 169

#### Diabetes

In vivo glucose monitoring with open microflow – influences of fluid composition and preliminary evaluation in man, 385 (1999) 23

### Diabetes mellitus

Slow ultrafiltration for continuous in vivo sampling: application for glucose and lactate in man, 379 (1999) 327

# Diabetic complication

Clinical analysis of aldose reductase for differential diagnosis of the pathogenesis of diabetic complication, 365 (1998) 285

# Diabetic neuropathy

Clinical analysis of aldose reductase for differential diagnosis of the pathogenesis of diabetic complication, 365 (1998) 285

### Diacetyl in brandy

Voltammetry of compounds confined at the hanging mercury drop electrode surface, 385 (1999) 315

### Diagnosis

On-line automated analytical signal diagnosis in sequential injection analysis systems using artificial neural networks, 348 (1997) 113

### Dialkyl sulfides

Metallomesogens as stationary phases for ligand exchange gas chromatography - Part I. The use of nickel and zinc complexes of 4-decanoxydithiobenzoic acid for the separation of polycyclic aromatic hydrocarbons and dialkyl sulfides, 332 (1996) 23

# Dialkyldithiocarbamates

Liquid chromatography of metal chelates. Chromatographic studies of homologous dialkyldithiocarbamates, 395 (1999) 101

# Dialkyldithiophosphates

Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for the determination of zinc by flame atomic absorption spectrometry, 309 (1995) 395

Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for nickel, cobalt and manganese determination by atomic absorption spectrometry, 317 (1995) 215

#### Dialysing membranes

Evaluation of the dialysing yield of membranes with different composition. Application to the analysis of chloride in fruit juices by flow injection, 353 (1997) 245

### Dialysis

Liquid chromatographic determination of base oil composition and content in lubricating oils containing dispersants of the polybutenylsuccinimide type, 306 (1995) 73

Preconcentration of an analyte dialysate in a flow-injection system, 308 (1995) 214

Determination of iron(III) in pharmaceutical samples using dialysis in a sequential injection analysis system, 357 (1997) 141

#### Dialysis concentrates

On-line preconcentration of aluminium with immobilized Chromotrope 2B for the determination by flame atomic absorption spectrometry and inductively coupled plasma mass spectrometry, 304 (1995) 121

On-line separation and spectrophotometric determination of low levels of aluminum in high-salt content samples: application to analysis of hemodialysis fluids, 362 (1998) 163

# Dialysis membrane

Mercury thread electrode in a flow cell, 332 (1996) 165 Methods and issues in microdialysis calibration, 379 (1999) 337

# Dialysis unit

Automated determination of lactulose in milk using an enzyme reactor and flow analysis with integrated dialysis, 324 (1996) 37

# 2,3-Diaminophenazine

Micelle enhanced spectrofluorimetric assay for laccase activity by a flow-injection stopped-flow technique, 318 (1995) 63

# Diamond

Determination of noble metals in sulphide inclusions from diamonds using inductively coupled plasma-mass spectrometry, 333 (1996) 41

# Diamond electrodes

Polycrystalline diamond electrodes: basic properties and applications as amperometric detectors in flow injection analysis and liquid chromatography, 397 (1999) 145

### Diamond film

Fabrication and application of a diamond-film glucose biosensor based on a H<sub>2</sub>O<sub>2</sub> microarray electrode, 327 (1996) 133

### Diaphorase

Polyethyleneimine-coated reticulated vitreous carbon electrode with immobilized enzymes as a substrate detector, 374 (1998) 185

### Diastereoisomers

Diastereoisomer separation of methylidene malonate 2.1.2 oligomerization products by liquid chromatography using a nonchiral stationary phase, 359 (1998) 57

### 1,8-Diazabicyclo-[5.4.0]-undec-7-ene (DBU)

Very fast peroxyoxalate chemiluminescence, 400 (1999) 257

#### Diazepam

Simultaneous quantitative determination of diazepam and liposomes using differential pulse polarography, 391 (1999) 83

#### Diazine derivatives

Isomer recognizing adsorption of palladium(II)-2-(5-bromo-2-pyridylazo)-5-diethylaminophenol with diazine derivatives at the toluene-water interface, 394 (1999) 23

#### Diazonium salts

A novel method for the determination of vitamin C in natural orange juices by electrochemical monitoring of dediazoniation of 3-methylbenzenediazonium tetrafluoroborate, 385 (1999) 373

#### Diazotization

Highly sensitive spectrophotometric determination of nitrite ion using 5,10,15,20-tetrakis(4-aminophenyl)porphine for application to natural waters, 333 (1996) 175

Asymmetric porphyrin derivative having one reactive site as a highly sensitive spectrophotometric reagent for nitrite, 354 (1997) 159

# Diazotization-coupling method

Spectrophotometric determination of nitrate and nitrite in soil and water samples with a diazotizable aromatic amine and coupling agent using column preconcentration on naphthalene supported with ion-pair of tetradecyldimethylbenzylammonium and iodide, 350 (1997) 295

### Dibenzlydithiocarbamate

Determination of soluble chromium(VI) in chromium plating mist by X-ray spectrometry, 334 (1996) 331

### Dibenzofurans

The simulation of <sup>13</sup>C nuclear magnetic resonance spectra of dibenzofurans using multiple linear regression analysis and neural networks, 321 (1996) 127

### Dibenzothiophene

Acidic and non-acidic products from the photo-oxidation of the crude oil component dibenzothiophene dissolved in seawater, 392 (1999) 19

### Dibromocarboxvarsenazo

Direct spectrophotometric determination of chromium by microwave-oven induced flow-injection analysis, 374 (1998) 61

### Dibromo-o-carborylchlorophonazo

Direct spectrophotometric determination of chromium by microwave-oven induced flow-injection analysis, 374 (1998) 61

### Dicarboxylic acids

Selective membrane transport of dicarboxylic acids in their neutral form by a synthetic receptor containing amidopyridine groups, 343 (1997) 287

### Dichloride radical ion

X-ray irradiated sodium chloride as an excitation source for the sensitized terbium(III)-specific chemiluminescence of aromatic Tb(III) chelates in aqueous solutions, 347 (1997) 333

### Dichlorine radical ion

Intrinsic and 1-aminonaphthalene-4-sulfonate-specific extrinsic lyoluminescences of X-ray irradiated sodium chloride, 340 (1997) 245

Luminol-specific extrinsic lyoluminescence of X-ray irradiated sodium chloride, 349 (1997) 1

### 2',7'-dichlorofluorescein

Fluorimetric method for the determination of thiocyanate with 2',7'dichlorofluorescein and iodine, 394 (1999) 171

### Dichlorofluorescein esters

Optical films for protamine detection with lipophilic dichlorofluorescein derivatives, 334 (1996) 139

### Dichloromethane

Ultramicroelectrode study without deliberately added electrolyte: application to the analysis of liquid-liquid extraction processes in dichloromethane, 305 (1995) 137

Characterisation of the ion mobility spectrometric behaviour of a dinitrobutane under varying conditions of temperature and concentration, 375 (1998) 49

# 2,4-Dichlorophenoxyacetic acid

A disposable amperometric immunosensor for 2,4-dichlorophenoxyacetic acid, 304 (1995) 361

A multichannel immunochemical sensor for determination of 2,4dichlorophenoxyacetic acid, 316 (1995) 73

Improved direct piezoelectric biosensors operating in liquid solution for the competitive label-free immunoassay of 2,4-dichlorophenoxyacetic acid, 347 (1997) 43

The specific immunochemical detection of 2,4-dichlorophenoxyacetic acid and 2,4,5-trichlorophenoxyacetic acid pesticides by amperometric cholinesterase biosensors, 347 (1997) 71

# 3,4-Dichloropropionanilide

Amperometric sensor for Propanil, 320 (1996) 263

# Dichromate extraction

Spectrophotometric determination of chromium(VI) by extraction of the dichromate anion into propylene carbonate, 356 (1997) 145

### Diclofenac sodium determination

Sensitive and selective determination of diclofenac sodium in pharmaceutical preparations by solid phase ultraviolet absorptiometry, 369 (1998) 263

### Didealkylatrazine

Determination of didealkylatrazine in water by graphitized carbon black extraction followed by gas chromatography-high resolution mass spectrometry, 304 (1995) 67

### Didecyl 1,10-diaza crown ether

Hollow fiber based supported liquid membrane: a novel analytical system for trace metal analysis, 350 (1997) 183

### Dielectric materials

Solvent-induced morphology changes in thin silver films, 307 (1995) 341

### Dielectric screening in infra red spectra

Screening effects in surface infrared spectra of CO adsorbed on electrodes: application to isothermal desorption measurements, 397 (1999) 53

#### Diesel combustion

Determination of N-nitrosomorpholine using square wave voltammetry, 356 (1997) 239

### Diesel particulates

Effect of parameters on supercritical fluid extraction of nitro-polynuclear aromatic hydrocarbons from sand, 349 (1997) 245

#### Diet

A new technique to measure bird's dietary exposure to pesticides, 399 (1999) 173

### 4-(Diethylamino)benzoic acid

Study and application of a novel probe using twisted intramolecular charge transfer fluorescence, 349 (1997) 17

# 9-(4-Diethylamino-2-octadecyletherstyryl)-acridine

Ion-selective optode membranes using 9-(4-diethylamino-2-octadecanoatestyryl)-acridine acidochromic dye, 398 (1999) 1

### Diethylberyllium

Inductively coupled plasma atomic emission spectrometric determination of beryllium in aluminium-based alloys and rock samples by introducing beryllium into the plasma as ethylberyllium species, 309 (1995) 379

# Diethyldithiocarbamate

Simultaneous determination of trace amounts of nickel, copper and mercury by liquid chromatography coupled with flow-injection on-line derivatization and preconcentration, 369 (1998) 215

### Di-2-ethylhexyl phosphonic acid

Concentration of amino acids using supported liquid membranes with di-2-ethylhexyl phosphoric acid as a carrier, 346 (1997) 191

# Differential detection

Differential flow injection potentiometry, 311 (1995) 175

### Differential determination

Kinetic-mechanistic study of the chlorpromazine-hydrogen peroxide reaction catalyzed by molybdenum(VI) and tungsten(VI), and their differential determination, 349 (1997) 43

# Differential kinetic analysis

Multicommutation in flow analysis. Part 4. Computer-assisted splitting for spectrophotometric determination of copper and zinc in plants, 332 (1996) 173

### Differential kinetic methods

Chemometric study of differential kinetic analysis by the method of proportional equations, 322 (1996) 195

Artificial neural networks and multivariate calibration for spectrophotometric differential kinetic determinations of food antioxidants, 396 (1999) 221

### Differential potentiometry

Usefulness of a ruggedness test in the validation of flow injection analysis systems, 355 (1997) 195

#### Differential pulse

Electroanalytical study and square wave voltammetric techniques for the determination of β-blocker timolol at the mercury electrode, 389 (1999) 225

# Differential pulse anodic stripping voltammetry

Evaluation of cadmium-metallothionein stability constants based on voltammetric measurements, 360 (1998) 189

Optimisation of resolution function in signals ratio method and deconvolution by polynomial division – quantitation of Cd(II) and In(III) from their global signals obtained at carbon fibre disk ultramicroelectrode. 382 (1999) 105

The use of voltammetry for sorption studies of heavy metals on mineral surfaces in presence of the siderophore desferrioxamine B, 392 (1999) 159

Evaluation of *n*-substituted aminosulfonic acid pH buffers with a morpholinic ring for cadmium and lead speciation studies by electroanalytical techniques, 394 (1999) 325

# Differential pulse polarography

Abilities of differentiation and partial least squares methods in the analysis by differential pulse polarography Simultaneous determination of furazolidone and furaltadone, 302 (1995) 9

Determination of molybdenum using polarographic catalytic current, 309 (1995) 73

Signals ratio method for resolution enhancement in differential pulse polarography and related techniques, 312 (1995) 27

The effect of chelate ring size on metal ion size-based selectivity in polyamine ligands containing pyridyl and saturated nitrogen donor groups, 312 (1995) 307

Simultaneous polarographic analysis of pyrazine and its methyl derivatives by iterative target transformation factor analysis, 316 (1995) 233

Study of the chelation of boron with Azomethine H by differential pulse polarography, liquid chromatography and capillary electrophoresis and its analytical applications, 317 (1995) 295

Study of the catalytic polarographic reduction of Ni(II) in the presence of albumin, immunoglobulins and serum proteins Determination of total proteins in serum, 317 (1995) 319

Formation constant calculation for non-labile complexes based on a labile part of the metal-ligand system. A differential pulse polarographic study at fixed ligand to metal ratio and varied pH: application to polarographically inactive complexes, 319 (1996) 39

Evolving polynomial regression and error analysis in model identification and determination of consecutive stability constants using voltammetric methods, 325 (1996) 135

Polarographic determination of Sn(II) in samples containing Sn(IV) such as in 99m-Technetium radiopharmaceutical kits, 332 (1996) 67

Determination of secnidazol in pharmaceutical tablets and intestinal fluids by differential pulse polarography, 332 (1996) 161

A potentiometric and differential pulse polarographic study of Cd<sup>II</sup> with 1-hydroxyethylenediphosphonic acid, 379 (1999) 217

Partial least-squares method in analysis by differential pulse polarography. Simultaneous determination of amiloride and hydrochlorothiazide in pharmaceutical preparations, 381 (1999) 247

Characterisation of zinc metallothioneins by electroanalytical techniques, 385 (1999) 295

Characterisation of zinc metallothioneins by electroanalytical techniques, 385 (1999) 307

Complexation of cadmium by the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: study by differential pulse polarography and circular dichroism spectroscopy with multivariate curve resolution analysis, 390 (1999) 15

Simultaneous quantitative determination of diazepam and liposomes using differential pulse polarography, 391 (1999) 83

Polarographic and voltammetric determination of selected nitrated polycyclic aromatic hydrocarbons, 393 (1999) 141

Evaluation of n-substituted aminosulfonic acid pH buffers with a morpholinic ring for cadmium and lead speciation studies by electroanalytical techniques, 394 (1999) 325

# Differential pulse polarography and voltammetry

A novel method for the determination of vitamin C in natural orange juices by electrochemical monitoring of dediazoniation of 3methylbenzenediazonium tetrafluoroborate, 385 (1999) 373

# Differential pulse stripping voltammetry

Poly(pyrogallol) film on glassy carbon electrode for selective preconcentration and stripping voltammetric determination of Sb(III), 373 (1998) 15

# Differential pulse voltammetry

Potentiometric stripping analysis vs. differential pulse anodic stripping voltammetry for copper(II) analysis at relatively positive deposition potential, 303 (1995) 255

Determination of trace titanium in KH<sub>2</sub>PO<sub>4</sub> by differential pulse adsorption voltammetry, 306 (1995) 225

The electrochemistry of monobutyltin and mixtures of butyltin compounds at mercury electrodes in aqueous media, 310 (1995) 109

Trace analysis of neutral organic species using thin-layer electrochemistry, 321 (1996) 195

Simultaneous flow injection analysis of cadmium and lead with differential pulse voltammetric detection, 340 (1997) 149

Disposable screen-printed electrodes for the immunochemical detection of polychlorinated biphenyls, 342 (1997) 189

Use of a carbon paste modified electrode for the determination of 2nitrophenol in a flow system by differential pulse voltammetry, 344 (1997) 167

The kinetics-based electrochemical determination of serum glutamate pyruvate transaminase activity with a gold microelectrode, 353 (1997) 319

Voltammetric study of 2-methyl-4,6-dinitrophenol at a modified carbon paste electrode, 370 (1998) 231

Electrochemical oxidation of NADH at a bare glassy carbon electrode in different supporting electrolytes, 385 (1999) 345

Voltammetric study of khellin at a DNA-coated carbon paste electrode, 386 (1999) 63

Electrochemical behaviour of triclosan at a screen-printed carbon electrode and its voltammetric determination in toothpaste and mouthrinse products, 390 (1999) 107

Polarographic and voltammetric determination of selected nitrated polycyclic aromatic hydrocarbons, 393 (1999) 141

#### Differential reaction rate

Partial least-squares regression for multicomponent kinetic determinations in linear and non-linear systems, 303 (1995) 309

### Differential scanning calorimetry

Assessment of the intermediate phase in milk fat by low-resolution nuclear magnetic resonance, 311 (1995) 217

Differential scanning calorimetric and Fourier transform infrared spectrometric investigations of the influence of silica on the liquid crystalline properties of 4'-cyano-4-biphenyl[4-(4-pentenyloxy)]benzoate, 315 (1995) 77

Effective purification of ellagic acid by successive automatic recrystallization and absolute determination of purity by absorptivity ratio, 338 (1997) 247

# Differential-pulse polarography

Metal complexation model identification and the detection and elimination of erroneous points using evolving least-squares fitting of voltammetric data, 363 (1998) 261

# Differentiation

Terrigenous debris and mussel pollution – a differentiation based on trace element concentration by means of multivariate analysis, 344 (1997) 251

### Diffuse reflectance

Optical tomographic reconstruction from diffuse remittance in scattering media using partial least squares estimation, 348 (1997) 553

Estimation of effective sample size when analysing powders with diffuse reflectance near-infrared spectrometry, 364 (1998) 243

Establishment of absolute diffuse reflectance scales using the NPL Reference Reflectometer, 380 (1999) 165

Improved model for improving the inter-instrument agreement of spectrocolorimeters, 380 (1999) 263

Infrared diffuse reflectance instrumentation and standards at NIST, 380 (1999) 289

Intercomparison of industrial near-infrared diffuse reflectance measurements, 380 (1999) 401

### Diffuse reflectance spectroscopy

Sorption-photometric determination of ascorbic acid using molybdosilicic heteropolyacid and polyurethane foam after microwave irradiation, 373 (1998) 131

### Diffuse reflection spectroscopy

Diffuse reflection spectroscopy of indium sorbates with immobilized heterocyclic azo compounds, 364 (1998) 235

### Diffuse transmission

NIST transmission density instrument, 380 (1999) 143

#### Diffuse transmittance

In vitro measurement of sun protection factor of sunscreens by diffuse transmittance, 380 (1999) 155

### Diffusion

Numerical approach to the explanation of the response time of the Severinghaus type electrode, 316 (1995) 83

Methods and issues in microdialysis calibration, 379 (1999) 337Study of the extraction of 1-(2'-pyridylazo)-2-naphthol from ethanol-water solutions into Nafion <sup>8</sup> membranes, 392 (1999) 201

#### Diffusion coefficients

Determination of experimental diffusion coefficients of acetic acid and formic acid vapours in air using a passive sampler, 341 (1997) 1

Mathematical model for the migration of plasticisers from food contact materials into solid food, 347 (1997) 249

Flow injection analysis methods for determination of diffusion coefficients, 350 (1997) 359

Effect of the medium composition on the current of steady state voltammograms of neutral and charged species in dimethylformamide/toluene mixtures, 385 (1999) 365

Determination of the diffusion coefficient of 1-(2'-pyridylazo)-2naphthol in ethanol-water solutions using flow injection and nuclear magnetic resonance techniques, 386 (1999) 137

### Diffusion equation

Mathematical modelling of potentiometric stripping analysis in mechanically mixed solutions, 329 (1996) 1

Mathematical modelling of potentiometric stripping analysis. Chemical stripping in quiet solutions, 377 (1998) 13

# Diffusion layer titration

Titrations with electrogenerated hypobromite in the diffusion layer of interdigitated microelectrode array, 374 (1998) 283

# Diffusional interaction

Diffusional interaction between closely spaced dual microelectrodes, 397 (1999) 123

### Diffusivity

Effect of chemical diffusivity on the peak shapes in flow injection analysis with sample or reagent injection, 310 (1995) 329

### Diflubenzuron

Determination of diflubenzuron and its main metabolites in forestry matrices by liquid chromatography with on-line diode-array and electrochemical detection, 384 (1999) 63

### Diflunisal

Synchronous scanning second derivative spectrofluorimetry for the simultaneous determination of diflunisal and salicylic acid added to serum and urine as ternary complexes with terbium and EDTA, 320 (1996) 107

Kinetic determination of salicylic acid, diflunisal and their mixture based on lanthanide-sensitized luminescence, 329 (1996) 135

### Digestion

Determination of total phosphorus in waters and wastewaters by online UV/thermal induced digestion and flow injection analysis, 326 (1996) 29

Sample collection and preparation for analysis of airborne particulate matter by total reflection X-ray fluorescence spectrometry, 346 (1997) 121

Procedures for the storage and digestion of natural waters for the determination of filterable reactive phosphorus, total filterable phosphorus and total phosphorus, 375 (1998) 5

Comparison of two digestion methods for elemental determinations in plant material by ICP techniques, 378 (1999) 191

### Digestion methods

Application of microwave digestion to trace organoelement determination in water samples, 374 (1998) 209

# Digital densimetry

The effects of solution conditions on partial specific volumes of humic substances, 362 (1998) 299

### Digital filtering

Digital filtering in stripping analysis, 305 (1995) 165

On-line fault detection of flow-injection analysis systems based on recursive parameter estimation, 313 (1995) 161

### Digital filtration

A low cost, open and flexible on-line data acquisition system for instrumental chromatography, 306 (1995) 285

### Digital simulation

Ultramicroelectrodes in kinetic investigations supported by simulation. A review with some additional examples, 305 (1995) 96

### Digitoxin

Competitive nonseparation electrochemical enzyme binding/immunoassay (NEEIA) for small molecule detection, 357 (1997) 5

### Digoxin

Competitive nonseparation electrochemical enzyme binding/immunoassay (NEEIA) for small molecule detection, 357 (1997) 5

### Dihydropyridines

Neural networks as a tool for modelling the retention behaviour of dihydropyridines in micellar liquid chromatography, 353 (1997) 367

# 3,4-Dihydroquinoxalin-2(1H)-one

Comparative study of some synthesised and commercial fluorogenic substrates for horseradish peroxidase and its mimetic enzyme hemin by a flow injection method, 340 (1997) 159

### 2,3-Dihydroxypropyl chitosan

Selective separation of germanium(IV) by 2,3-dihydroxypropyl chitosan resin, 371 (1998) 187

### 24,25-Dihydroxyvitamin D<sub>3</sub>

Enzyme-linked immunosorbent assay for plasma 24,25-dihydroxyvitamin D<sub>3</sub>, 365 (1998) 151

### Diisopropyl fluorophosphate

Affinity enzymometric assay for detection of organophosphorus compounds, 357 (1997) 13

An enzyme based biosensor for the direct determination of diisopropyl fluorophosphate, 389 (1999) 189

#### **B-Diketone**

Supercritical fluid extraction of cobalt with fluorinated and nonfluorinated β-diketones, 346 (1997) 73

#### Diloxanide furoate

Separation and estimation of diloxanide furoate and metronidazole in solid dosage form using packed column supercritical fluid chromatography, 354 (1997) 123

#### Dilution

Continuous sample recirculation in an opened-loop multicommutated flow system, 377 (1998) 103

A new sample-injection/sample-dilution system for the flow-injection analytical technique, 381 (1999) 287

# **Dimensionality reduction**

Neural network learning to non-linear principal component analysis. 336 (1996) 209

# Dimer

Study on the dimer-monomer equilibrium of a fluorescent dye and its application in nucleic acids determination, 361 (1998) 9

# 2,5-Dimercapto-1,3,4-thiadiazole

Sorption and preconcentration of metal ions on silica gel modified with 2,5-dimercapto-1,3,4-thiadiazole, 327 (1996) 183

### Dimer

High performance liquid chromatographic analysis of human hemoglobins and their polypeptide chains: its use in the identification of variants. 352 (1997) 187

### Dimethoate

Determination of dimethoate and fenitrothion in estuarine samples by C-18 solid-phase extraction and high-resolution gas-chromatography with nitrogen-phosphorus detection, 335 (1996) 51

# 4-(5',6'-Dimethoxybenzothiazolyl)phthalhydrazide

Development of a novel chemiluminescent probe, 4-(5'.6'-dimethoxybenzothiazolyl) phthalhydrazide, 309 (1995) 211

# 3,4-dimethoxyphenylglyoxal

Simultaneous determination of 7-methylguanine and O<sup>6</sup>-methylguanine in DNA by liquid chromatography with postcolumn fluorescence derivatization using 3,4-dimethoxyphenylglyoxal, 365 (1998) 233

### Dimethyl sulfide

An automated instrument for the analysis of atmospheric dimethyl sulfide and carbon disulfide, 306 (1995) 259

#### Dimethyl sulfoxide

Autoprotolysis in aqueous organic solvent mixtures. Water/dipolar protophilic solvent binary systems, 349 (1997) 367

### 1,1'-Dimethyl-4,4'-bipyridinium dichloride

Indirect photometric detection of inorganic monovalent and divalent cations by microcolumn ion chromatography using 1,1'dimethyl-4,4'-bipyridinium dichloride as visualization agent, 379 (1999) 33

### 2,3-Dimethyl-2,3-dinitrobutane

Characterisation of the molecular ions produced by a dinitroalkane in positive mode ion mobility spectrometry with water, dichloromethane and ammonia reactant ion chemistries, 374 (1998) 253

Characterisation of the ion mobility spectrometric behaviour of a dinitrobutane under varying conditions of temperature and concentration, 375 (1998) 49

#### Dimethylamine

Formation of a stable adduct between 1,2-benzoquinone and dimethylamine and its application to the spectrophotometric determination of 1,2-benzoquinone, 351 (1997) 259

# 5-Dimethylaminonaphthalene-1-[N-(2-aminoethyl)]sulfonamide

Liquid chromatographic determination of 5-methylcytosine in DNA with fluorescence detection, 365 (1998) 213

# Dimethylarsenic

Cysteine enhancement of the cryogenic trap hydride AAS determination of dissolved arsenic species, 333 (1996) 89

# Dimethylarsinate

Determination of arsenic species by field amplified injection capillary electrophoresis after modification of the sample solution with methanol, 389 (1999) 9

# Dimethylarsine

Determination of dimethylarsinic acid by hydride generation gas phase molecular absorption spectrometry, 343 (1997) 39

### 2,3-Dimethylbut-1,3-diene

Characterisation of the ion mobility spectrometric behaviour of a dinitrobutane under varying conditions of temperature and concentration, 375 (1998) 49

### Dimethyldistearylammonium

Determination of manganese in steel after extraction of dimethyldistearylammonium permanganate, 393 (1999) 223

### 1,1'-Dimethylferricinium

Kinetics and performance of a mediated biosensor for hypoxanthine using deflavo xanthine oxidase, 319 (1996) 325

### 1,1'-dimethylferricinium

A flow-injection (FI) mediated biosensor for on-line monitoring of lactate in mammalian cell culture, 351 (1997) 159

#### Dimethylferrocene

Aldose dehydrogenase-modified carbon paste electrodes as amperometric aldose sensors, 302 (1995) 233

### 1,1'-Dimethylferrocene

A regenerable pseudo-reagentless glucose biosensor based on Nafion polymer and 1,1'-dimethylferricinium mediator, 310 (1995) 419

# Dimethylglyoxime

Effect of model organic compounds on square-wave voltammetric stripping analysis at the Nafion/chelating agent mercury film electrodes, 310 (1995) 407

#### 2,6-Dimethyl-4-heptanone

Solvent extraction of arsenic from acid medium using zinc hexamethylenedithiocarbamate as an extractant, 360 (1998) 43

# Dimethylphananthrolinium

Novel method of detecting mismatch on DNA by using photoinduced electron transfer through DNA, 365 (1998) 49

#### Dimethylsebacate

Lead-selective electrode by using benzyl disulphide as ionophore, 378 (1999) 145

### β-Dimethylsulphoniopropionate

Flow injection system with flame photometric detection for the measurement of the dimethylsulphide precursor β-dimethylsulphoniopropionate, 377 (1998) 95

### Dimyristoyl phosphatidylcholine

Comparing organized media types using fluorescence probe characterization methods, 307 (1995) 419

### 4,4'-dinitrocarbanilide

4,4'-Dinitrocarbanilide – hapten development utilizing molecular models, 376 (1998) 139

# Dinitrophenol

Effect of competitor design on immunoassay specificity: Development and evaluation of an enzyme-linked immunosorbent assay for 2,4-dinitrophenol, 387 (1999) 267

### 2,4-dinitrophenol

Evaluation of a chemical vapor dosimeter using polymer-coated SERS substrates, 399 (1999) 265

# 2,4-Dinitrophenylhydrazin (DNPH)

Workplace monitoring of oximes using 2,4-dinitrophenylhydrazinecoated silica gel cartridges and liquid chromatography, 388 (1999) 181

### Diode array detection

Parallel Kalman filters for peak purity analysis: extensions to nonideal detector response, 307 (1995) 459

### Diode array spectrophotometry

Application of Kalman filtering to multivariate calibration and drift correction, 388 (1999) 315

### Diode laser

The analytical potential of diode laser-based intracavity absorption detection in column liquid chromatography, 323 (1996) 1

Micro-interferometric backscatter detection using a diode laser, 400 (1999) 265

### Diode-array detection

Determination of diflubenzuron and its main metabolites in forestry matrices by liquid chromatography with on-line diode-array and electrochemical detection, 384 (1999) 63

### 1,4-Dioxan

Autoprotolysis in aqueous organic solvent mixtures. Water/dipolar protophilic solvent binary systems, 349 (1997) 367

#### Dioxin

Linear data projection using a feedforward neural network, 348 (1997) 495

# Dipeptides

Interaction of tyrosine and tyrosine dipeptides with Cu<sup>2+</sup> ions: a fluorescence study, 315 (1995) 217

### Diphenylcarbazon

A ternary complex system for the reversed-phase chromatography of chromate, 317 (1995) 189

### Diphenylcarbazone oxidation

Flow-injection spectrophotometric catalytic determination of manganese in plants exploiting the aerial oxidation of diphenyl carbazone, 366 (1998) 87

# 5,5-diphenylhydantoin

Binding study on 5,5-diphenylhydantoin imprinted polymer constructed by utilizing an amide functional group, 394 (1999) 353

# Diphenylthiocarbazone

Voltammetric determination of lead with a chemically modified carbon paste electrode with diphenylthiocarbazone, 309 (1995) 117

### Diphenylurea

Diphenylurea hapten sensing with a monoclonal antibody and its Fab fragment: Kinetic and thermodynamic investigations, 362 (1998) 101

### DIPSO

Electrochemical study of proton ionisation, copper(II) complexation and surfactant properties of piperazine-N-N'-bis[2-hydroxypropanesulfonic acid] pH buffer . Comparison with other N-substituted aminosulfonic acids pH buffers, 369 (1998) 115

### Dip-strip test

Enzyme immunoassay using peroxidase as a label and a dip-strip test for monitoring residual bacitracin in chicken plasma, 346 (1997) 207

# Dipyridamole (DIP)

Simultaneous determination of atenolol, propranolol, dipyridamole and amiloride by means of non-linear variable-angle synchronous fluorescence spectrometry, 370 (1998) 9 Voltammetric and spectroscopic studies of the oxidation of the antioxidant drug dipyridamole in acetonitrile and ethanol, 375 (1998) 223

### Direct atomization

Electrothermal atomic absorption spectrometric determination of lead in calcium drug samples by direct atomization technique, 362 (1998) 279

#### Direct determination

Simultaneous determination of tributyltin and triphenyltin cations by capillary isotachophoresis with potential-gradient detector for direct detection, 383 (1999) 205

# Direct electron transfer

Electron transfer between cellobiose dehydrogenase and graphite electrodes, 331 (1996) 207

Amperometric detection of phenols using peroxidase-modified graphite electrodes, 347 (1997) 51

Direct electron transfer between heme-containing enzymes and electrodes as basis for third generation biosensors, 400 (1999)

### Direct injection

Chromatographic determination of diuretics in urine samples using hybrid micellar mobile phases with fluorimetric detection, 375 (1998) 143

Direct injection of edible oils as microemulsions in a micellar mobile phase applied to the liquid chromatographic determination of synthetic antioxidants, 387 (1999) 127

### Direct optical detection

Label free optical immunoprobes for pesticide detection, 347 (1997) 219

# Direct potentiometry

Potentiometric analysis of ionic surfactants by a new type of ionselective electrode, 349 (1997) 59

### (Direct) electron-transfer

Glucose detection at bare and sputtered platinum electrodes coated with polypyrrole and glucose oxidase, 335 (1996) 209

# Direct-injection technique

Direct observation of sample trapping process onto internal-surface reversed-phase pre-column, 365 (1998) 115

### Directional-hemispherical reflectance

Infrared diffuse reflectance instrumentation and standards at NIST, 380 (1999) 289

### Dirty samples

On-line pervaporation separation process for the potentiometric determination of fluoride in "dirty" samples, 308 (1995) 246

### Disc electrode

Mathematical modelling of potentiometric stripping analysis. Chemical stripping in quiet solutions, 377 (1998) 13

### Discriminant analysis

Characterization of fatty acids composition in vegetable oils by gas chromatography and chemometrics, 358 (1998) 163

# Discriminant partial least squares

Classification of pyrolysis mass spectra by fuzzy multivariate rule induction-comparison with regression, K-nearest neighbour, neural and decision-tree methods, 348 (1997) 389

#### Discriminant rotation

Multivariate statistical analysis characterization of applicationbased ion mobility spectra, 316 (1995) 1

#### Discrimination

In vitro selection of aptamers that recognize a monosaccharide, 365 (1998) 95

Matching and discrimination of single human-scalp hairs by FT-IR micro-spectroscopy and chemometrics, 392 (1999) 223

#### Disinfectant

Microplate photometric determination of aldehydes in disinfectant solutions, 351 (1997) 247

# Disinfection by-product

Determination of bromate at parts-per-trillion levels by gas chromatography-mass spectrometry with negative chemical ionization, 377 (1998) 53

### Disopyramide

Determination of free disopyramide in blood serum in situ using a disopyramide-sensitive membrane electrode, 343 (1997)

### Disopyramide-selective membrane electrode

Lauryl sulphate as counter ion for construction of ion-selective membrane electrodes for moclobemide and disopyramide, 350 (1997) 105

# Dispersion

Mathematical modelling of flow-injection systems, 308 (1995) 36

Effect of solvent properties on the dispersion coefficient in an online microwave flow-injection system, 314 (1995) 213

Dispersion behaviour of solid particles in flow-injection analysis, 346 (1997) 351

Capillary flow injection: Performance under pressure, 366 (1998) 305

Continuous, pulsed and stopped flow in a µ-flow injection system (numerical vs experimental), 378 (1999) 111

An iterative method for solving inverse problems arising from dispersion in high pressure size exclusion chromatography, 392 (1999) 183

### Dispersion polymerization

Derivatized, swellable polymer microspheres for chemical transduction, 400 (1999) 55

### Disposable

Disposable thick film modified graphite electrodes for stripping voltammetry, 349 (1997) 85

### Disposable electrode

Disposable creatinine sensor based on thick-film hydrogen peroxide electrode system, 394 (1999) 225

### Disproportionation

Stability of preplated mercury coated platinum and carbon fibre microelectrodes, 327 (1996) 211

#### Dissociation

Analysis of free-electron laser-induced infrared multiphoton dissociation for cholesterol ester, 365 (1998) 193

#### **Dissociation constants**

A simple spectrophotometric determination of dissociation constants of organic compounds, 306 (1995) 351

Conductometric determination of dissociation constants of several acids and their tetrabutylammonium salts in propan-2-ol/water mixtures, 333 (1996) 241

Factor analysis applied to correlation between acidity constants of series of diuretics, quinolones and buffers, with solvatochromic parameters in water-acetonitrile mixtures, 347 (1997) 385

Solvent effects on protonation equilibria of peptides and quinolones by factor analysis applied to the correlation between dissociation constants and solvatochromic parameters in acetonitrile-water mixtures, 351 (1997) 397

Oxidation and reduction of thymosin  $\beta_4$  and its influence on the interaction with G-actin studied by reverse-phase HPLC and post-column derivatization with fluorescamine, 352 (1997) 249

Dissociation constants of methyl orange in aqueous alcohol solvents, 364 (1998) 275

General equation for determining the dissociation constants of polyprotic acids and bases from additive properties. Part I. Theory, 390 (1999) 261

General equation for determining the dissociation constants of polyprotic acids and bases from additive properties. Part II. Applications, 390 (1999) 267

Binding study on 5,5-diphenylhydantoin imprinted polymer constructed by utilizing an amide functional group, 394 (1999)

# Dissociation rate constant

Affinity between immobilised monoclonal and polyclonal antibodies and steroid-enzyme tracers increases sharply at high surface density, 381 (1999) 133

### Dissolution kinetics

Nickel speciation of fly ash by phase extraction, 349 (1997) 121

### Dissolution test

Sequential-injection system for drug-dissolution studies of ibuprofen tablets and sustained-release formulations, 358 (1998) 103

Simultaneous monitoring of aspirin, phenacetin and caffeine in compound aspirin tablets using a sequential injection drug-dissolution testing system with partial least squares calibration, 392 (1999) 273

# Dissolution testing

Automated flow-injection system for extending the linear range, 366 (1998) 271

# Dissolved Cu

On-line voltammetric monitoring of dissolved Cu and Ni in the Gulf of Cadiz, south-west Spain, 377 (1998) 205

### Dissolved gas sensor

Gas sensitive field-effect transistors: applications to the monitoring of biotechnological processes, 373 (1998) 253

#### Dissolved Ni

On-line voltammetric monitoring of dissolved Cu and Ni in the Gulf of Cadiz, south-west Spain, 377 (1998) 205

#### Dissolved nickel

Validation and in situ application of an automated dissolved nickel monitor for estuarine studies, 371 (1998) 235

Validation and in situ application of an automated dissolved nickel monitor for estuarine studies, 377 (1998) 217

# Dissolved nitrate

A low power ultra violet spectrophotometer for measurement of nitrate in seawater: introduction, calibration and initial sea trials, 377 (1998) 167

### Dissolved organic carbon

Correction of fluorescence inner filter effects and the partitioning of pyrene to dissolved organic carbon, 338 (1997) 155

# Dissolved organic compounds

On-line multicomponent determination of organic compounds in water following gel permeation chromatographic separation, 319 (1996) 165

## Dissolved oxygen

Approaches to in-line removal of dissolved oxygen in flow systems for process analysis, 332 (1996) 31

Application of capillary electrophoresis for the determination of dissolved gases in water samples. I. Determination of dissolved oxygen, 356 (1997) 1

On-line monitoring of galactoside conjugates and glycerol by flow injection analysis, 373 (1998) 57

Oxygen-sensitive reverse-phase optode membrane using silica geladsorbed ruthenium(II) complex embedded in gelatin film, 387 (1999) 197

Effect of dissolved oxygen on the response of Cu(II) ion-selective electrodes in metal buffer solutions, 395 (1999) 53

### Distillation

Determination of cyanide as tetracyanonickelate(II) by flow injection and spectrophotometric detection, 357 (1997) 103

On-line determination of cyanide in the presence of sulfide by flow injection with pervaporation, 390 (1999) 133

### Distribution of solutes

Application of the Kamlet and Taft model in solvent extraction chemistry of metals, 374 (1998) 137

### Distribution ratio

Physicochemical understanding of the selectivity at an ion selective electrode of the liquid membrane type and relation between the selectivity and distribution ratios in the ion-pair extraction, 374 (1998) 269

# Disulfides

Determination of salmon calcitonin by square wave adsorptive stripping voltammetry, 351 (1997) 65

#### Disulfiram

Development of graphite-poly(tetrafluoroethylene) composite electrodes Voltammetric determination of the herbicides thiram and disulfiram, 305 (1995) 192

### Dithiocarbamate

Simultaneous determination of dithiocarbamates by capillary electrophoresis with diode array detection and using factor analysis, 339 (1997) 123

# Dithiocarbamate derivatives

Selective solid phase extraction of mercury(II) by silica gel-immobilized-dithiocarbamate derivatives, 398 (1999) 297

### Dithiocarbamate fungicides

High sensitive bienzymic sensor for the detection of dithiocarbamate fungicides, 347 (1997) 63

#### Dithizone

Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165

Determination of inorganic and organic mercury compounds by capillary gas chromatography coupled with atomic absorption spectrometry after preconcentration on dithizone-anchored poly(ethylene glycol dimethacrylate-hydroxyethylmethacrylate) microbeads, 371 (1998) 177

#### Diuretics

Variable-angle scanning fluorescence spectrometry for the simultaneous determination of three diuretic drugs, 306 (1995) 313

Factor analysis applied to correlation between acidity constants of series of diuretics, quinolones and buffers, with solvatochromic parameters in water-acetonitrile mixtures, 347 (1997) 385

Micellar liquid chromatographic determination of diuretics by diazotization and coupling with the Bratton-Marshall reagent,

Chromatographic determination of diuretics in urine samples using hybrid micellar mobile phases with fluorimetric detection, 375 (1998) 143

Chromatographic behavior of ionizable compounds in liquid chromatography. Part 2. Standardization of potentiometric sensors and effect of pH and ionic strength on the retention of analytes using acetonitrile-water mobile phases, 389 (1999) 43

### Diuron

Prototype of a newly developed immunochemical detection system for the determination of pesticide residues in water, 347 (1997) 187

Hapten design for compound-selective antibodies: ELISAS for environmentally deleterious small molecules, 376 (1998) 83

Flow injection immunoaffinity analysis (FIIAA) — A screening technology for atrazine and diuron in water samples, 399 (1999) 89

### DL

Multivariate data analysis as a tool for evaluating emission intensity, background equivalent concentration and detection limit obtained for different plasma positions in direct current plasmaatomic emission spectrometry, 354 (1997) 211

### d-Lactate

Bi-enzyme amperometric d-lactate sensor using macromolecular NAD<sup>+</sup>, 315 (1995) 297

#### p-Mannitol

Development of a carbon composite electrode made from polyethylene and graphite powder modified with copper(I) oxide, 326 (1996) 107

# p-3-methoxy-4-hydroxyphenylglycol

Syntheses of antigens conjugated with 3-methoxy-4-hydroxyphenylglycol by Mannich reaction for enzyme immunoassay, 365 (1998) 137

### DMSP

Flow injection system with flame photometric detection for the measurement of the dimethylsulphide precursor β-dimethylsulphoniopropionate, 377 (1998) 95

#### DNA

On-line and off-line monitoring of the production of alkaline serine protease by Bacillus licheniformis, 317 (1995) 247

Trace measurements of nucleic acids using flow injection amperometry, 319 (1996) 347

Quantitative analysis for solid-phase hybridization reaction and

Quantitative analysis for solid-phase hybridization reaction and binding reaction of DNA binder to hybrids using a quartz crystal microbalance, 327 (1996) 29

Highly rugged kinetic method for the enzymatic determination of DNA in agarose gel with array detection using a charge coupled device, 329 (1996) 285

Accumulation and trace measurements of phenothiazine drugs at DNA-modified electrodes, 332 (1996) 139

Voltammetric determination of sequence-specific DNA by electroactive intercalator on graphite electrode, 335 (1996) 239

Sequence-specific electrochemical biosensing of M. tuberculosis DNA, 337 (1997) 41

Highly sensitive detection of membrane-bound DNA using fluorescein derivatives, 339 (1997) 289

Determination of DNA using sodium 9,10-anthraquinone-2-sulfonate as an in situ photochemical fluorescence probe, 340 (1997) 291

Electrochemical studies of porphyrin interacting with DNA and determination of DNA, 344 (1997) 97

Covalent immobilization of single-stranded DNA onto optical fibers using various linkers, 344 (1997) 201

Time-resolved fluorescence studies of the interaction of the Eu<sup>3+</sup> complexes of tetracycline analogues with DNA, 345 (1997) 213

DNA electrochemical biosensors for environmental monitoring. A review, 347 (1997) 1

Adsorptive potentiometric stripping analysis of nucleic acids at mercury electrodes, 349 (1997) 77

Voltammetric studies of the interaction of daunomycin anticancer drug with DNA and analytical applications, 373 (1998) 29

Simple and sensitive assay for nucleic acids by use of Rayleigh light scattering technique with rhodamine B, 379 (1999) 39

Disposable DNA electrochemical biosensors for environmental monitoring, 387 (1999) 297

Study of the reaction between nucleic acids and the trihydroxyanthroquinone-Al complex and its analytical application, 392 (1999) 291

Determination of nucleic acids using phosphin 3R as a fluorescence probe, 394 (1999) 177

Voltammetric studies of the interaction of methylene blue with DNA by means of β-cyclodextrin, 394 (1999) 337

Three-dimensional spectra of the long-range assembly of Nile Blue sulfate on the molecular surface of DNA and determination of DNA by light-scattering, 395 (1999) 187

Molecular spectroscopic study of DNA binding with neutral red and application to assay of nucleic acids, 396 (1999) 75

Demonstration of a separations-based fiberoptic sensor for bioanalysis, 399 (1999) 201

Intercalation-induced changes in DNA supercoiling observed in real-time by atomic force microscopy, 400 (1999) 27

Considerations for the quantitative transduction of hybridization of immobilized DNA, 400 (1999) 73

#### **DNA** adducts

Identification of stereoisomeric benzo[a]pyrene tetrols by reversedphase liquid chromatography coupled semi-on-line to fluorescence line-narrowing spectroscopy, 303 (1995) 3

Post-source decay production studies of aniline and methylaniline adducts of deoxyguanosine, 397 (1999) 257

#### **DNA** biosensor

Detection of point mutation in the p53 gene using a peptide nucleic acid biosensor, 344 (1997) 111

Flow-injection determination of catechol with a new tyrosinase/ DNA biosensor, 366 (1998) 137

### **DNA** damage

Supercoiled DNA-modified mercury electrode: A highly sensitive tool for the detection of DNA damage, 342 (1997) 1

Highly sensitive assay of DNA abasic sites in mammalian cellsoptimization of the aldehyde reactive probe method, 365 (1998)

Disposable DNA electrochemical biosensors for environmental monitoring, 387 (1999) 297

### **DNA** diagnostics

Stripping potentiometric transduction of DNA hybridization processes, 326 (1996) 141

### DNA hybridization

Indicator-free electrochemical DNA hybridization biosensor, 375 (1998) 197

### DNA probe

Fibre-optic genosensor for specific determination of femtomolar DNA oligomers, 350 (1997) 51

A chemiluminescence derivatization method for detecting nucleic acids and DNA probes using a trimethoxyphenylglyoxal reagent that recognizes guanine, 381 (1999) 155

### **DNA** recovery

Recovery and amplification of plasmid DNA with atomic force microscopy and the polymerase chain reaction, 361 (1998) 1

## **DNA** sequence

Utilization of an osmium complex as a sequence recognizing material for DNA-immobilized electrochemical sensor, 345 (1997) 45

### DNA triple helix

Detection of higher-ordered DNA sequence by using terbium(III) luminescence, 365 (1998) 27

# **DNA-coated**

Voltammetric study of khellin at a DNA-coated carbon paste electrode, 386 (1999) 63

# DNA-modified electrode

DNA-modified electrodes Part 3.: spectroscopic characterization of DNA-modified gold electrodes, 388 (1999) 93

#### **DNA-sensor**

Amplified electronic transduction of oligonucleotide interactions: novel routes for Tay-Sachs biosensors, 385 (1999) 33

#### DNC

4,4'-Dinitrocarbanilide – hapten development utilizing molecular models, 376 (1998) 139

## Dodecylacridinium stationary phase

Retention behavior of polycyclic aromatic hydrocarbons in microcolumn liquid chromatography with acridine derivative as stationary phase, 370 (1998) 125

### Dodecyltriethyl ammonium bromide

Aqueous two-phase extraction system of sodium perfluorooctanoate and dodecyltriethylammonium bromide mixture and its application to porphyrins and dyes, 390 (1999) 125

### Doehlert design

The application of Doehlert designs in the optimization of experimental variables in solid phase spectrophotometry, 316 (1995) 185

Sequential response surface methodology for multioptimization in analytical chemistry with three-variable Doehlert designs, 348 (1997) 237

Optimisation of the extraction of arsenic species from mussels with low power focused microwaves by applying a Doehlert design, 364 (1998) 19

Application of Doehlert optimization and factorial designs in developing and validating a solid-phase spectrophotometric determination of trace levels of cadmium, 382 (1999) 117

### Dogfish muscle

Constant current cathodic stripping potentiometric determination of arsenic on a mercury film electrode in the presence of copper ions, 381 (1999) 207

### Domestic

Multivariate data analysis of key pollutants in sewage samples: a case study, 393 (1999) 181

### Dopamine

Experimental procedures for the determination of amperometric selectivity coefficients, 303 (1995) 265

Covalent modification of carbon electrodes for voltammetric differentiation of dopamine and ascorbic acid, 317 (1995) 303

Factors affecting the analytical applications of zeolite-modified electrodes Preconcentration of electroactive species, 340 (1997) 61

Surface and kinetic enhancement of selectivity and sensitivity in analysis with fast scan voltammetry at scan rates above 1000 V/s, 349 (1997) 67

Voltammetric behaviour of dopamine at nickel phthalocyanine polymer modified electrodes and analytical applications, 354 (1997) 343

Voltammetric behaviour of dopamine at nickel phthalocyanine polymer modified electrodes and analytical applications, 356 (1997) 245

Peroxidase-based spectrophotometric methods for the determination of ascorbic acid, norepinephrine, epinephrine, dopamine and levodopa, 357 (1997) 261

Adsorptive potentiometric stripping analysis of dopamine on claymodified electrode, 372 (1998) 315

Do neurotransmitters sampled by brain microdialysis reflect functional release?, 379 (1999) 263

#### Dopamine detection

Electrochemical detection of NADH and dopamine in flow analysis based on tetraruthenated porphyrin modified electrodes, 329 (1996) 91

### Doping control analysis

Principal component analysis for resolving coeluting substances in gas chromatography-mass spectrometry doping control analysis, 331 (1996) 53

### Dosage form

Supercritical fluid chromatographic method using phenyl packed column for determination of phenobarbitone and phenytoin sodium in dosage form, 384 (1999) 143

# Dosage formulation

Simultaneous estimation of nalidixic acid and metronidazole in dosage forms using packed column supercritical fluid chromatography, 376 (1998) 221

# Dosimeter for UVB radiation

Photoinduced dimerization of thymine in microemulsion for UVB radiation exposure measurements, 318 (1995) 103

# Dosimetry

Radiosterilization dosimetry by electron-spin resonance spectroscopy: Cefotetan, 359 (1998) 107

Electron spin resonance identification of irradiated ascorbic acid: Dosimetry and influence of powder fineness, 372 (1998) 373

### Dot-blot

Rapid method for assay of quantitative binding of soluble proteins and photosynthetic membrane proteins on poly(vinylidene difluoride) membranes, 365 (1998) 109

### Double cavity

Quantitative electron paramagnetic resonance (EPR) spectrometry with a TE<sub>103</sub> double rectangular cavity Part 2. Analysis of sample and  $TE_{104}$  cavity error sources associated with the movement of line-like samples into the  $TE_{104}$  cavity, 333 (1996) 253

### Double focusing-inductively coupled plasma-mass spectrometry

Multielemental trace analysis of biological materials using double focusing inductively coupled plasma mass spectrometry detection, 400 (1999) 307

# Double Langmuir-Freundlich isotherm

Study of the acid-base properties of three fulvic acids extracted from different horizons of a soil, 385 (1999) 443

### Double stranded DNA

Novel method of detecting mismatch on DNA by using photoinduced electron transfer through DNA, 365 (1998) 49

Affinity adsorption separation of mutagenic molecules by polyacrylamide hydrogels comprising double-stranded DNA, 365 (1998) 101

### Double-layer membrane modified electrode

Amperometric determination of epinephrine with an osmium complex and Nafion double-layer membrane modified electrode, 378 (1999) 151

### **Double-strand DNA fragment**

Separation of double-strand DNA fragments by high-performance liquid chromatography using a ceramic hydroxyapatite column, 386 (1999) 69

### Doxazosin

Study of the adsorptive stripping voltammetric behaviour of the antihypertensive drug Doxazosin, 329 (1996) 25

### Doxifluridine

Simultaneous determination of 5'-deoxy-5-fluorouridine, 5-fluorouracil and 5,6-dihydro-5-fluorouracil in plasma by gas chromatography-mass spectrometry, 329 (1996) 143

### 2D-PAGE (two-dimensional electrophoresis)

Electrophoretic analyses of clotting factor VIII concentrates, 372 (1998) 219

# DRASTIC

Diffuse reflectance absorbance spectroscopy taking in chemometrics (DRASTIC). A hyperspectral FT-IR-based approach to rapid screening for metabolite overproduction, 348 (1997) 273

### DRIFT

Prediction of physical properties of fabrics using DRIFT spectroscopy and thermal analysis, 332 (1996) 105

### **Drift** correction

Application of Kalman filtering to multivariate calibration and drift correction, 388 (1999) 315

### Drifting of responses

Influence of the sequence of experiments in a ruggedness test when drift occurs, 347 (1997) 369

### **Drinking** water

Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165

Application of capillary electrophoresis for the determination of dissolved gases in water samples. I. Determination of dissolved oxygen, 356 (1997) 1

Investigation of the speciation of aluminium in drinking waters by sorption on a strong anionic-exchange resin AG1X8, 367 (1998) 215

Total microcystin determination using *erythro*-2-methyl-3-(methoxy-d<sub>3</sub>)-4-phenylbutyric acid (MMPB-d<sub>3</sub>) as the internal standard, 386 (1999) 107

Dip-and-read test strips for the determination of trinitrotoluene (TNT) in drinking water, 396 (1999) 309

### Drinking water analysis

Speciation of halogenides and oxyhalogens by ion chromatographyinductively coupled plasma mass spectrometry, 360 (1998) 161

# Drop dialysis

Comparison of microscale cleaning procedures for (Glyco) proteins prior to positive ion matrix-assisted laser desorption ionization mass spectrometry, 372 (1998) 187

#### DRS

Chemometric analysis of diffuse reflectance spectra of Co<sup>2+</sup>exchanged zeolites: spectroscopic fingerprinting of coordination
environments, 348 (1997) 267

### Drug actions

Toxic interactions between clozapine and ampicillin, 319 (1996) 353

# Drug analysis

Pharmaceutical applications of a flurbiprofen sensor, 311 (1995) 193

## Drug diagnostics

Rapid screening method for cocaine and benzoylecgonine in saliva samples, 372 (1998) 349

### **Drug dissolution**

Combination of flow injection with capillary electrophoresis. Part 4.

Automated multicomponent monitoring of drug dissolution, 376
(1998) 209

### Drug monitoring

Ion-selective electrode for procainamide determination in blood serum, 312 (1995) 35

Determination of free disopyramide in blood serum in situ using a disopyramide-sensitive membrane electrode, 343 (1997) 79

# Drug sample

Electrothermal atomic absorption spectrometric determination of lead in calcium drug samples by direct atomization technique, 362 (1998) 279

# Drug screening

Rapid screening method for cocaine and benzoylecgonine in saliva samples, 372 (1998) 349

# **Drug-protein interaction**

Binding of sulfamethoxazole to human serum albumin studied by a combined technique of microdialysis with liquid chromatography, 342 (1997) 159

Flow-injection analysis-electrochemical detection for the determination of drug-protein interactions with microdialysis sampling, 386 (1999) 123

### Drugs

New immunoassay techniques using Nafion-modified electrodes and cationic redox labels or enzyme labels, 311 (1995) 301

Spectral transformation and wavelength selection in near-infrared spectra classification, 315 (1995) 243

Metalloporphyrin-based polymer membrane electrode with high selectivity for 2-hydroxybenzhydroxamate, 321 (1996) 11

Enantiomeric separation of six 2-arylpropionic acids after precolumn derivatization with various amines and alcohols on a cellulose-based chiral stationary phase, 321 (1996) 245

Determination of platinum and gold in anticancer and antiarthritic drugs and metabolites, 334 (1996) 5

Development of a sensitive radioimmunoassay for the potential antimigraine drug GR151004: including cross-validation to liquid chromatography-mass spectrometry-mass spectrometry and application to pharmacokinetic studies, 334 (1996) 225

### Dry ashing

Anodic stripping potentiometric determination of antimony in environmental materials, 302 (1995) 225

Cathodic stripping potentiometric determination of selenium in biological and environmental materials on a combined electrode with a rotating sample platform, 338 (1997) 199

Increased sensitivity in thick-target particle induced X-ray emission analyses using dry ashing for preconcentration, 378 (1999) 273

Constant current cathodic stripping potentiometric determination of arsenic on a mercury film electrode in the presence of copper ions, 381 (1999) 207

# Dry clean-up residue

Stability studies of arsenate, monomethylarsonate, dimethylarsinate, arsenobetaine and arsenocholine in deionized water, urine and clean-up dry residue from urine samples and determination by liquid chromatography with microwave-assisted oxidation-hydride generation atomic absorption spectrometric detection, 340 (1997) 209

### Dry oxidation

Critical discussion on the need for an efficient mineralization procedure for the analysis of plant material by atomic spectrometric methods, 358 (1998) 85

### Drving

Microwave vacuum drying of marine sediment: determination of moisture content, metals and total carbon, 342 (1997) 247

Comparison of different drying, extraction and detection techniques for the determination of priority polycyclic aromatic hydrocarbons in background contaminated soil samples, 383 (1999) 263

### DTPA

Determination of the solubility products of nitrilotriacetic acid, ethylenediaminetetraacetic acid and diethylenetriaminepentaacetic acid, 380 (1999) 105

Adsorptive separation of some metal ions by complexing agent types of chemically modified chitosan, 388 (1999) 209

### Dual band electrodes

Synergetic effects in the flow injection analysis determination of catechol in the presence of excess ascorbic acid by series dualband amperometric detection, 385 (1999) 281

### Dual retention mechanism

A study of a permanently coated polymeric column for simultaneous separation of inorganic anions and mono-carboxylic acids, 339 (1997) 231

### Dual wavelength method

Studies on monoxide flame emission spectrometry of rare-earth elements. Part 2. Determination of yttrium in rare-earth concentrates by the dual wavelength method, 344 (1997) 291

Studies on monoxide emission spectrometry of rare-earth elements.
IV. Simultaneous determination of Sm, Eu, Gd in Sm-Eu-Gd concentrates by the dual wavelength method, 350 (1997) 365

### Dual wavelength treatment

In situ determination of silicic acid in sea water based on FIA and colorimetric dual-wavelength measurements., 377 (1998) 157

### Dugong

Characterization of dugong liver ferritin, 393 (1999) 235

# **Duolite GT-73**

Recovery of palladium(II) and gold(III) from diluted liquors using the resin duolite GT-73, 381 (1999) 61

### Durable

Durability and cleaning of matt surface ceramic colour standards, 380 (1999) 413

# **Duty cycle**

Sorting measurement queues to speed up the flow injection analysis mass spectrometry of combinatorial chemistry syntheses, 394 (1999) 33

### D-xylose

Aldose dehydrogenase-modified carbon paste electrodes as amperometric aldose sensors, 302 (1995) 233

### Dyad symmetrical sequence

Detection of higher-ordered DNA sequence by using terbium(III) luminescence, 365 (1998) 27

### Dye laser

Ultraviolet laser-induced fluorescence detection strategies in capillary electrophoresis: determination of naphthalene sulphonates in river water, 360 (1998) 109

### Dye leaching

Organically modified silicate films for stable pH sensors, 394 (1999) 195

### Dye-nonaqueous solvents

Investigation of the response of dye-nonaqueous solvent solutions to carbon dioxide, 309 (1995) 27

#### Dves

Sensitivity enhancement of fluorescent pH indicators using pHdependent energy transfer, 313 (1995) 131

Determination of oxacyanine dyes and rhodamine by a second harmonic generation technique using a femtosecond laser, 330 (1996) 117

Coupling of column liquid chromatography and surface-enhanced resonance Raman spectroscopy via a thin-layer chromatographic plate, 349 (1997) 189

Aqueous two-phase system of cationic and anionic surfactant mixture and its application to the extraction of porphyrins and metalloporphyrins, 369 (1998) 11

Spectrophotometric resolution of ternary mixtures of Tartrazine, Patent Blue V and Indigo Carmine in commercial products, 391 (1999) 353

### Dvestuffs

Cloud point preconcentration and liquid chromatographic determination of aromatic amines in dyestuffs, 373 (1998) 197

# Dynamic light scattering

Dynamic properties of humic matter by dynamic light scattering and voltammetry, 329 (1996) 15

Measurement of electrokinetic and size characteristics of estuarine colloids by dynamic light scattering spectroscopy, 331 (1996)

# Dynamic modification

Amperometric detection of enzymes in capillary zone electrophoresis based on dynamic modification with surfactants, 349 (1997) 215

# Dynamic range

Glucose-sensitive ion-sensitive field-effect transistor-based biosensor with additional positively charged membrane Dynamic range extension and reduction of buffer concentration influence on the sensor response, 322 (1996) 77

# Dynamic sorption preconcentration

Determination of low levels of platinum group metals: new solutions, 334 (1996) 167

### Dynamically coated column

Chelation ion chromatography of metal ions using an ODS reversedphase column and a mobile phase containing methylthymol blue, 375 (1998) 117

# E

### E coli

Highly sensitive flow-injection immunoassay system for rapid detection of bacteria, 399 (1999) 99

#### E. coli determination

Biosensor for L-lactate determination as an index of E. coli number in crude culture medium, 361 (1998) 45

### Eastman AQ

Improved stability and altered selectivity of tyrosinase based graphite electrodes for detection of phenolic compounds, 387 (1999) 309

### Ebro delta

Monitoring of pesticides in river water based on samples previously stored in polymeric cartridges followed by on-line solid-phase extraction-liquid chromatography-diode array detection and confirmation by atmospheric pressure chemical ionization mass spectrometry, 386 (1999) 237

#### **Echelle**

New compact Echelle spectrographs with multichannel timeresolved recording capabilities, 380 (1999) 353

#### Ecstasy

Determination of 3,4-methylenedioxyamphetamine analogues ("ecstasy") by proton nuclear magnetic resonance spectrometry, 339 (1997) 259

### **Edible oils**

Direct injection of edible oils as microemulsions in a micellar mobile phase applied to the liquid chromatographic determination of synthetic antioxidants, 387 (1999) 127

# Edible oils and fats

Simultaneous determination of sterols in edible oils by use of a continuous separation module coupled to a gas chromatograph, 308 (1995) 253

# Edible vegetable oils

Characterization of fatty acids composition in vegetable oils by gas chromatography and chemometrics, 358 (1998) 163

### **Edman degradation**

Procedures leading to primary structure determination of proteins in complex mixtures by gel electrophoresis and modern microscale analyses, 372 (1998) 21

# **EDTA**

Determination of the solubility products of nitrilotriacetic acid, ethylenediaminetetraacetic acid and diethylenetriaminepentaacetic acid, 380 (1999) 105

Adsorptive separation of some metal ions by complexing agent types of chemically modified chitosan, 388 (1999) 209

Development of a simple extraction procedure using ligand competition for biogeochemically available metals of estuarine suspended particulate matter, 392 (1999) 3

### **Educational systems**

Low-budget flow-injection device for teaching: A \$10 six-port valve, 366 (1998) 217

### EDXRF

Study of on-line analysis using energy dispersive X-ray fluorescence spectrometry for controlling lanthanum and neodymium extraction, 362 (1998) 253

### **EEM fluorescence**

Multivariate calibration of polycyclic aromatic hydrocarbon mixtures from excitation-emission fluorescence spectra, 373 (1998) 311

#### Effect of diluents

Application of the Kamlet and Taft model in solvent extraction chemistry of metals, 374 (1998) 137

#### Effects-related analytics

Development of an enzyme linked receptor assay (ELRA) for estrogens and xenoestrogens, 386 (1999) 191

#### Efflorescence salt

Characterisation of an unusual crystalline efflorescence on an Egyptian limestone relief, 337 (1997) 151

Investigation of the composition of a unique efflorescence on calcareous museum artifacts, 337 (1997) 253

### Efflorescence X

Characterisation of an unusual crystalline efflorescence on an Egyptian limestone relief, 337 (1997) 151

Investigation of the composition of a unique efflorescence on calcareous museum artifacts, 337 (1997) 253

### Effluent analysis

Improved technique for the routine determination of tritiated water in aqueous samples, 382 (1999) 225

# **Effluents**

Use of analytical pyrolysis for the characterization of paper industry effluents, 335 (1996) 245

Speciative determination of chromium(VI) and chromium(III) using flow-injection on-line preconcentration and flame atomicabsorption spectrometric detection, 369 (1998) 69

Determination of sulphide in effluent streams using a solid-phase lead(II) chromate reactor incorporated into a flow-injection system, 369 (1998) 157

# Eigenstructure tracking analysis

Eigenstructure tracking analysis for assessment of peak purity in high-performance liquid chromatography with diode array detection, 314 (1995) 131

# EIS

Characterization of a single-piece all-solid-state lithium-selective electrode based on soluble conducting polyaniline, 385 (1999) 163

### El Niño

A new automated underway system for making high precision pCO<sub>2</sub> measurements onboard research ships, 377 (1998) 185

### Elastic modulus

Water-instigated changes in elastic modulus of polypyrrole studied by thin rod acoustic wave sensor, 353 (1997) 255

### Electrical contact of enzymes

Glucose oxidase electrodes via reconstitution of the apo-enzyme: tailoring of novel glucose biosensors, 385 (1999) 45

### Electrical potential oscillation

Electrical potential oscillation across a water/octanol/water liquid membrane in the presence of two taste substances, 365 (1998) 279

### **Electro Spray Mass Spectrometry**

Determination of the quaternary ammonium ion components of Aliquat 336 by electrospray mass spectrometry, 360 (1998) 167

# Electroanalysis

Influence of Triton X-100 in stripping potentiometry, 333 (1996) 233

Solid electrodes from refractory powder materials prepared for electroanalytical purposes by a novel method, 364 (1998) 181

Cathodic stripping voltammetry of thiosulphate at toxic concentrations, 386 (1999) 221

Electrochemical response of new carbon electrodes bulk modified with cobalt phthalocyanine to some thiols in the presence of heptane or human urine, 394 (1999) 91

Sol-gel materials for electrochemical biosensors, 399 (1999) 21

### Electroanalytical characterization

Electroanalytical and acid-base properties of imidazoacridinone, an antitumor drug (C-1311), 379 (1999) 209

### Electrocatalysis

Highly selective biosensing of lactate at lactate oxidase containing rhodium-dispersed carbon paste electrodes, 304 (1995) 41

Remarkably selective metallized-carbon amperometric biosensors, 305 (1995) 3

The electrochemical polymerization of methylene green and its electrocatalysis for the oxidation of NADH, 329 (1996) 41

Electrocatalysis of NADH oxidation with electropolymerized films of nile blue A, 343 (1997) 69

Electrocatalytic oxidation and determination of ascorbic acid at poly(glutamic acid) chemically modified electrode, 344 (1997) 181

Electrocatalysis by a C<sub>60</sub>-γ-cyclodextrin (1:2) and nafion chemically modified electrode of hemoglobin, 356 (1997) 225

Sensitized luminescence induced by nickel electrocatalysis to detect aliphatic hydroxy compounds, 362 (1998) 141

Electrocatalysis of the oxidation of alcohol and phenol derivative pollutants at vitreous carbon electrode coated by nickel macrocyclic complex-based films, 378 (1999) 159

PFeW<sub>11</sub>-doped polymer film modified electrodes and their electrocatalytic activity for H<sub>2</sub>O<sub>2</sub> reduction, 385 (1999) 111

Fabrication of a chemically modified electrode containing 12molybdophosphoric acid by the sol-gel technique and its application as an amperometric detector for iodate, 394 (1999) 73

Modified electrode surfaces for catalytic reduction of carbon dioxide, 396 (1999) 1

# Electrocatalyst

Evaluation of chemical oxygen demand (COD) based on coulometric determination of electrochemical oxygen demand (EOD) using a surface oxidized copper electrode, 398 (1999) 161

### Electrocatalytic oxidation

Catalytic oxidation of reduced nicotinamide adenine dinucleotide at a microband gold electrode modified with nickel hexacyanoferrate, 310 (1995) 145

### Electrocatalytic reduction

Study of the catalytic polarographic reduction of Ni(II) in the presence of albumin, immunoglobulins and serum proteins Determination of total proteins in serum, 317 (1995) 319

Liquid chromatography-amperometric detection of nitrite using a polypyrrole modified glassy carbon electrode doped with tungstodiphosphate anion, 345 (1997) 147

Amperometric immunosensing using microperoxidase MP-11 antibody conjugates, 374 (1998) 167

### Electrocatalytical oxidation

Amperometric determination of epinephrine with an osmium complex and Nafion double-layer membrane modified electrode, 378 (1999) 151

### Electrochemical analysis

Application and comparisons of chemometric techniques for calibration modelling using electrochemical/ICP-MS data for trace elements in UHQ water and humic acid matrices, 378 (1999) 235

### Electrochemical behavior

Determination of the vinylsulphone azo dye, remazol brilliant orange 3R, by cathodic stripping voltammetry, 385 (1999) 385

### Electrochemical biosensor

Electrochemical approach in studying the inhibition of acetylcholinesterase by arsenate(III): analytical characterisation and application for arsenic determination, 364 (1998) 195

# Electrochemical detection

Monitoring of enzymatic hydrolysis of ivory nut mannan using online microdialysis sampling and anion-exchange chromatography with integrated pulsed electrochemical detection, 313 (1995) 15

Determination of trace cyanide in 3-guanidinopropionic acid by stripping preconcentration/isolation followed by flow-injection analysis with amperometric detection at silver, 313 (1995) 75

Determination of polyhydroxy antibiotics by capillary zone electrophoresis with amperometric detection at a nickel electrode, 329 (1996) 49

A microelectrochemical detector for use at low linear velocities in capillary column systems, 344 (1997) 77

Simultaneous amperometric and potentiometric detection of inorganic anions in flow systems using platinum and silver/silver chloride electrodes, 350 (1997) 1

Characterisation and analytical use of a polypyrrole electrode containing anti-human serum albumin, 371 (1998) 39

On-line coupling of in vivo microdialysis with capillary electrophoresis/electrochemistry, 379 (1999) 307 Simultaneous biosensing of ethanol and glucose with combined use of a rotating bioreactor and a stationary column reactor, 380 (1999) 1

Determination of monoamine transmitters and their metabolites by capillary electrophoresis with electrochemical detection, 382 (1999) 33

Determination of diflubenzuron and its main metabolites in forestry matrices by liquid chromatography with on-line diode-array and electrochemical detection, 384 (1999) 63

Application of microband array electrodes for end-column electrochemical detection in capillary electrophoresis, 385 (1999)

Determination of thiocompounds by liquid chromatography with amperometric detection at a Nafion/indium hexacyanoferrate film modified electrode, 386 (1999) 21

Automated analysis for vitamin E in butter by coupling sample treatment – continuous membrane extraction – liquid chromatography with electrochemical detection, 386 (1999) 99

Flow-injection analysis-electrochemical detection for the determination of drug-protein interactions with microdialysis sampling, 386 (1999) 123

Determination of angiotensin II in blood-brain barrier permeability studies using microbore LC with p-nitrophenyl-2,5-dihydroxy-phenylacetate bis-tetrahydropyranyl ether as a pre-separation electrochemical labeling reagent, 394 (1999) 299

### **Electrochemical DNA-sensor**

Amplified electronic transduction of oligonucleotide interactions: novel routes for Tay-Sachs biosensors, 385 (1999) 33

### Electrochemical equilibrium

Shift and drift of electromotive forces of solid-state electrodes with ion-selective liquid membranes, 331 (1996) 85

### **Electrochemical functionalization**

Characterization of an electro-synthesized methoxylated polypyrrole film used as permselective barrier in amperometric biosensors by X-ray photoelectron and Fourier transform infrared spectroscopy, 389 (1999) 197

### Electrochemical immunoassay

Competitive nonseparation electrochemical enzyme binding/immunoassay (NEEIA) for small molecule detection, 357 (1997)

 $\beta\text{-Lactamase}$  label-based potentiometric biosensor for  $\alpha\text{--}2$  interferon detection, 390 (1999) 73

### Electrochemical impedance spectroscopy

Potentiometric properties and impedance spectroscopic data of poly(vinyl chloride) membranes containing quaternary ammonium salts of different chemical structure, 393 (1999) 19

### Electrochemical luminescence

Highly sensitive electrochemical luminescence determination of thiamine, 394 (1999) 165

# Electrochemical method

Application of electrochemical and spin trapping techniques in the investigation of hydroxyl radicals, 389 (1999) 213

### Electrochemical oxidation

- Simplex optimization of reaction variables in the production of cobalt(III) acetate in a bipolar packed-bed reactor, 335 (1996) 35
- Voltammetric and spectroscopic studies of the oxidation of the antioxidant drug dipyridamole in acetonitrile and ethanol, 375 (1998) 223
- Detection of active methylene compounds having cyano and carbonyl groups with chemiluminescent reaction using tris(2,2'bipyridine)ruthenium(III) prepared by on-line electrochemical oxidation, 378 (1999) 43

## Electrochemical oxygen demand (EOD)

Evaluation of chemical oxygen demand (COD) based on coulometric determination of electrochemical oxygen demand (EOD) using a surface oxidized copper electrode, 398 (1999) 161

### Electrochemical polymerization

An electrochemical quartz crystal microbalance study on growth of and ion transport in electrochemically polymerized poly(paraphenylene vinylene), 385 (1999) 175

### Electrochemical preconcentration

On-line preconcentration of lead and cadmium for flame atomic absorption spectrometry using a flow-through electrochemical microcell. 357 (1997) 133

### Electrochemical quartz crystal microbalance

- Limitations of the use of the electrochemical quartz crystal microbalance in stripping analysis of lead(II) and cadmium(II) on a quartz crystal platinum electrode with a thin mercury film, 368 (1998) 191
- An electrochemical quartz crystal microbalance study on growth of and ion transport in electrochemically polymerized poly(paraphenylene vinylene), 385 (1999) 175

# Electrochemical reduction

- Electrochemical reduction of isatic acid at mercury electrodes in aqueous media, 354 (1997) 365
- Amperometric determination of nitrite based on reaction with 3-mercaptopropanoic acid, 382 (1999) 189

### Electrochemical sensors

- In situ detection of trinitrotoluene and other nitrated explosives in soils, 341 (1997) 63
- Three-dimensional plots from osmium redox-polymer based electrochemical sensors, 344 (1997) 159
- Simultaneous superoxide and hydrogen peroxide detection in peroxidase/NADH oscillator, 354 (1997) 315
- Zeolite-modified electrodes in electroanalytical chemistry, 384 (1999) 1
- Poly(methylene blue) modified electrode sensor for haemoglobin, 385 (1999) 119
- Electrochemical sensors with solid polymer electrolytes, 385 (1999) 151
- Hydrogen peroxide sensor based on horseradish peroxidase-labeled Au colloids immobilized on gold electrode surface by cysteamine monolayer, 391 (1999) 73

#### Electrochemiluminescence

- Luminol electrochemiluminescence-based fibre optic biosensors for flow injection analysis of glucose and lactate in natural samples, 381 (1999) 1
- Integrated sensor for continuous flow electrochemiluminescent measurements of codeine with different ruthenium complexes, 392 (1999) 95
- Hot electron-induced electrogenerated luminescence of Tl(I) at disposable oxide-covered aluminum electrodes, 398 (1999) 41

### Electrochemistry

- Study of the additions of cadmium and zinc to the cadmium, zinc metallothioneins using differential pulse polarography Influence of the pH, 325 (1996) 43
- Electrochemical investigation of transduction of interactions of aflatoxin M<sub>1</sub> with bilayer lipid membranes (BLMs), 350 (1997) 121
- Cyanide ion minisensor based on methemoglobin incorporated in metal supported self-assembled bilayer lipid membranes and modified with platelet-activating factor, 355 (1997) 227
- Ellipsometric determination of the structure of surface-stabilized bilayer lipid membranes on silver metal, 357 (1997) 73

### Electrode arrays

Chemically diverse modified electrodes: A new approach to the design and implementation of sensor arrays, 397 (1999) 135

### **Electrode coatings**

Self-assembled monolayers and enzyme electrodes: progress, problems and prospects, 307 (1995) 277

# Electrode fabrication

The fabrication and performance of an Ag/AgCl reference electrode in human serum, 330 (1996) 167

# Electrode kinetics

Mathematical modelling of potentiometric stripping analysis in mechanically mixed solutions, 329 (1996) 1

### **Electrode potential**

Physicochemical understanding of the selectivity at an ion selective electrode of the liquid membrane type and relation between the selectivity and distribution ratios in the ion-pair extraction, 374 (1998) 269

# Electrode reaction mechanism

- Study of acetaminophen by parallel incident spectroelectrochemistry, 342 (1997) 13
- Parallel incident spectroelectrochemistry study of chloramphenicol, 363 (1998) 67

### Electrodeposition

Mass sensitivity of the tube acoustic wave sensor in the extensional mode, 336 (1996) 13

### Electrodes

- Numerical approach to the explanation of the response time of the Severinghaus type electrode, 316 (1995) 83
- Disposable thick film modified graphite electrodes for stripping voltammetry, 349 (1997) 85

Potentiometric detection of organic acids in liquid chromatography using conducting oligomer electrodes, 370 (1998) 105

Potentiometric detection in capillary electrophoresis with a conducting oligomer electrode, 385 (1999) 417

### Electrode-separated piezoelectric quartz crystal

Adsorption determination of ionic surfactants using an electrodeseparated piezoelectric quartz crystal, 339 (1997) 187

Adsorptive determination of copper(II) in solution as its N,N-diethyldithiocarbamate on an electrode-separated piezoelectric quartz crystal, 343 (1997) 209

# Electrodialysis

Molecularly imprinted polymeric membranes involving tetrapeptide EQKL derivatives as chiral-recognition sites toward amino acids, 365 (1998) 59

### Electrogenerated chemiluminescence

Electrogenerated chemiluminescence for determination of indole and tryptophan, 341 (1997) 251

Study of electrogenerated chemiluminescence of N-(β-carboxylpropionyl)luminol, 375 (1998) 269

Electrochemiluminescent labels for applications in fully aqueous solutions at oxide-covered aluminium electrodes, 386 (1999) 1

Near-infrared electrogenerated chemiluminescence of ytterbium(III) chelates in aqueous electrolytes, 395 (1999) 205

### Electrogenerated luminescence

Hot electron-induced time-resolved electrogenerated luminescence of Tb(III) ions at stationary oxide-covered aluminium electrodes, 359 (1998) 71

Hot electron-induced electrogenerated luminescence of Tl(I) at disposable oxide-covered aluminum electrodes, 398 (1999) 41

### Electrokinetic sample introduction

Combination of flow injection with capillary electrophoresis. Part I. The basic system, 346 (1997) 135

### Electroluminescence

Electroluminescent detection of enzymatically generated hydrogen peroxide, 327 (1996) 253

### Electrolysis

Flow injection chemiluminescence determination of catecholamines with electrogenerated hypochlorite, 374 (1998) 105

### Electrolyte composition

New electrolyte system for the determination of ammonium, alkali and alkaline earth cations by capillary electrophoresis, 374 (1998) 159

### Electrolyte concentration

Voltammetric studies of anthraquinone dyes adsorbed at a hanging mercury drop electrode using fast pulse techniques, 385 (1999) 287

### Electrolytic dissolution

Rapid determination of sulfur in steel by electrolytic dissolution – inductively coupled plasma atomic emission spectrometry, 394 (1999) 293

# Electrometric method

Conjugation and proton exchange equilibria: an electrometric method for determination of heteroconjugation constants in solvents of weak proton donating and weak proton accepting properties, 384 (1999) 27

### **Electron** impact

Pyrolysis electron impact mass spectrometry in studying aquatic humic substances, 350 (1997) 241

Characterization of lake-aquatic humic matter isolated with two different sorbing solid techniques: pyrolysis electron impact mass spectrometry, 391 (1999) 331

### Electron paramagnetic resonance

Analysis of some non-linear effects in quantitative electron paramagnetic resonance spectrometry. Non-linear effects due to the use of cavities with  $TE_{102}$  and  $TM_{110}$  modes, 353 (1997) 99

# Electron paramagnetic resonance (EPR) spectrometry

Choosing reference samples for EPR concentration measurements.

Part 1. General introduction and systems of S=12, 339 (1997) 1

Choosing reference samples for EPR concentration measurements. Part 2. Systems of S=1, 339 (1997) 13

Choosing reference samples for EPR concentration measurements. Part 3. Systems of S=32, 339 (1997) 31

Choosing reference samples for EPR concentration measurements. Part 4. Systems of S=52, 339 (1997) 53

### Electron probe analysis

Scanning electron microscopy with energy-dispersive electron probe X-ray analysis investigation of a sequential extraction scheme for copper, chromium, iron and aluminium speciation in marine suspended particulate matter, 306 (1995) 149

Evaluation of the acetate buffer attack of a sequential extraction scheme for marine particulate metal speciation studies by scanning electron microscopy with energy dispersive X-ray analysis, 360 (1998) 27

# Electron probe microanalysis

Elucidating the composition of atmospheric aerosols through the combined hierarchical, non-hierarchical and fuzzy clustering of large electron probe microanalysis data sets, 317 (1995) 33

### Electron probe X-ray microanalysis

Assessment of homogeneity of candidate reference material at the nanogram level and investigation on representativeness of single particle analysis using electron probe X-ray microanalysis, 389 (1999) 151

# Electron spin resonance (ESR)

Multimethod characterization of lake aquatic humic matter isolated with sorbing solid and tangential membrane filtration, 364 (1998) 203 Chemiluminescence of β-lactam antibiotics based on the luminol reaction, 389 (1999) 89

#### Electron transfer

Novel method of detecting mismatch on DNA by using photoinduced electron transfer through DNA, 365 (1998) 49

### Electron transfer sensitization mechanism

Near-infrared electrogenerated chemiluminescence of ytterbium(III) chelates in aqueous electrolytes, 395 (1999) 205

### **Electron-capture detection**

Electron-capture detection in reversed-phase liquid chromatography using packed-capillary columns, 304 (1995) 47

### Electronic nose

Neural network based electronic nose for the classification of aromatic species, 348 (1997) 503

Selection of variables for interpreting multivariate gas sensor data, 381 (1999) 221

A comparison study of chemical sensor array pattern recognition algorithms, 384 (1999) 305

#### Electronic Nose data

Classification of vegetable oils by linear discriminant analysis of Electronic Nose data, 384 (1999) 83

#### Electronic tongue

An electronic tongue based on voltammetry, 357 (1997) 21

### Electron-transfer

Influence of ionization energy on charge-transfer ionization in matrix-assisted laser desorption/ionization mass spectrometry, 397 (1999) 235

### **Electro-optical properties**

Electro-optical properties of microbial cells as affected by acrylamide metabolism, 347 (1997) 241

# Electroosmotically pumped capillary format sequential injection analysis

Electroosmotically pumped capillary format sequential injection analysis with a membrane sampling interface for gaseous analytes, 308 (1995) 281

### Electro-oxidation

Development and characterization of anodically initiated luminescent detection for alcohols and carbohydrates, 337 (1997) 207

# Electrophore

A new derivatization reagent 2-(pentafluorophenoxy)ethyl 2-(piperidino)ethanesulfonate for gas chromatography, 386 (1999) 113

# Electrophoresis

Electrochemical detection with microelectrodes in capillary flow systems, 305 (1995) 114

Capillary electrophoresis in speciation analysis. Investigations of metal-polyaminopolycarboxylate complexes and effects of metals on proteins, 306 (1995) 91 Analysis of trace level peptides using capillary electrophoresis with UV laser-induced fluorescence, 307 (1995) 163

Chiral separations using heparin and dextran sulfate in capillary zone electrophoresis, 307 (1995) 185

High molecular weight polyarginine as a capillary coating for separation of cationic proteins by capillary electrophoresis, 307 (1995) 193

On-line interface between microdialysis and capillary zone electrophoresis, 307 (1995) 217

Determination of five major anthraquinoids in Chinese herbal preparations by micellar electrokinetic capillary electrophoresis, 309 (1995) 361

Selectivity optimization after prediction of the migration behaviour of anions in capillary ion analysis in the presence of micelles, 310 (1995) 27

Study of coumarin metabolism by human liver microsomes using capillary electrophoresis, 310 (1995) 101

A simple and fast method to determine and quantify urinary creatinine, 312 (1995) 79

Determination of sodium, potassium, calcium and magnesium cations by capillary electrophoresis compared with ion chromatography, 314 (1995) 67

Enantiomeric separation of dansylamino acids by capillary zone electrophoresis with selectively methylated γ-cyclodextrin derivatives, 316 (1995) 121

Study of the chelation of boron with Azomethine H by differential pulse polarography, liquid chromatography and capillary electrophoresis and its analytical applications, 317 (1995) 295

Simultaneous determination of chloride complexes of Pt(IV) and Pd(II) by capillary zone electrophoresis with direct UV absorbance detection, 319 (1996) 191

Analysis of copper corrosion inhibitors by capillary zone electrophoresis, 321 (1996) 215

Multiwavelength fluorescence detection for purity analysis of fluorescence agents using capillary electrophoresis with a chargecoupled device, 322 (1996) 187

UV-visible spectrophotometric, adsorptive stripping voltammetric and capillary electrophoretic study of 2-(5'-bromo-2'-pyridy-lazo)-5-diethylaminophenol and its chelates with selected metal ions: application to the determination of Co(III) in vitamin B<sub>12</sub>, 323 (1996) 97

Determination of purine bases by capillary zone electrophoresis with wall-jet amperometric detection, 335 (1996) 95

New interface for coupling flow-injection and capillary electrophoresis, 337 (1997) 117

Simultaneous determination of dithiocarbamates by capillary electrophoresis with diode array detection and using factor analysis, 339 (1997) 123

Simultaneous determination of vanadium(IV) and vanadium(V) as EDTA complexes by capillary zone electrophoresis, 339 (1997) 251

Single-label fluorescent derivatization of peptides, 339 (1997) 279
Application of a nickel-microelectrode-incorporated end-column detector for capillary electrophoretic determination of alditols and alcohols, 341 (1997) 83

The mutual relationships between applied voltage, migration time and peak area in capillary zone electrophoresis, 342 (1997) 59 Determination of bovine serum albumin by capillary zone electrophoresis with end-column amperometric detection at the carbon fiber microdisk array electrode, 342 (1997) 67

Applications of gel electrophoresis in the determination of protein low  $M_r$  substances and protein—protein interactions, 372 (1998)

Pore gradient gel electrophoresis: theory, practice, and applications, 372 (1998) 91

Denaturant-gradient gel electrophoresis: technical aspects and practical applications, 372 (1998) 99

Electrophoretic characterisation of the major cat parotid salivary protein, 372 (1998) 249

Estimation of calcium-binding constants of casein phosphopeptides by capillary zone electrophoresis, 372 (1998) 291

Application of electrophoretic techniques to the diagnosis of disorders of lipoprotein metabolism. Examples at the levels of lipoproteins and apolipoproteins, 383 (1999) 169

Electrophoretic analysis of proteins in bile, 383 (1999) 185

### Electrophoresis parameters

Optimization of capillary electrophoresis conditions for in-capillary enzyme-catalyzed microreactions, 397 (1999) 183

# Electrophoresis sequencing

Strategies for analysis of electrophoretically separated proteins and peptides, 383 (1999) 27

### Electrophoretic sensitivity control

Sensitivity control of ion-selective biosensors by electrophoretically mediated analyte transport, 391 (1999) 57

# Electrophoretically mediated microanalysis

Optimization of capillary electrophoresis conditions for in-capillary enzyme-catalyzed microreactions, 397 (1999) 183

# Electropolymerization

Improvement of the analytical characteristics of an enzyme electrode for free and total cholesterol via laponite clay additives, 317 (1995) 275

The electrochemical polymerization of methylene green and its electrocatalysis for the oxidation of NADH, 329 (1996) 41

Characterisation and analytical use of a polypyrrole electrode containing anti-human serum albumin, 371 (1998) 39

Poly(pyrogallol) film on glassy carbon electrode for selective preconcentration and stripping voltammetric determination of Sb(III), 373 (1998) 15

Dual electrode signal-subtracted biosensor for simultaneous flow injection determination of sucrose and glucose, 380 (1999) 7

Potentiometric anion response of poly(5,15-bis(2-aminophenyl)porphyrin) electropolymerized electrodes, 381 (1999) 197

Electropolymerization of pyrrole and phenylenediamine over an organic conducting salt based amperometric sensor of increased selectivity for glucose determination, 385 (1999) 203

Characterization of an electro-synthesized methoxylated polypyrrole film used as permselective barrier in amperometric biosensors by X-ray photoelectron and Fourier transform infrared spectroscopy, 389 (1999) 197

### Electrosorption

Electrochemical behaviour of triclosan at a screen-printed carbon electrode and its voltammetric determination in toothpaste and mouthrinse products, 390 (1999) 107

### Electrospray ionization

Fourier transform electrospray ion mobility spectrometry, 334 (1996) 75

Soil column extraction followed by liquid chromatography and electrospray ionization mass spectrometry for the efficient determination of aryloxyphenoxypropionic herbicides in soil samples at ng g<sup>-1</sup> levels, 375 (1998) 107

# Electrospray ionization mass spectrometry

Electrospray ionization mass spectrometry of metal complexes. Gas phase formation of a binuclear copper(II)-5-Br-PADAP complex, 390 (1999) 193

Evaluating the quality of oligonucleotides that are immobilized on glass supports for biosensor development, 395 (1999) 273

### Electrospray mass spectrometry

Quantitation of quaternary ammonium compounds using electrospray mass spectrometry, 377 (1998) 39

Determination of small carboxylic acids by capillary electrophoresis with electrospray-mass spectrometry, 389 (1999) 1

Tracing polar benzene- and naphthalenesulfonates in untreated industrial effluents and water treatment works by ion-pair chromatography-fluorescence and electrospray-mass spectrometry, 400 (1999) 211

# Electrospray MS/MS

Biochemical speciation analysis by hyphenated techniques, 400 (1999) 321

### Electrospray/mass spectroscopy

Identification of laurylamine acetate in water gel explosives by electrospray/mass spectrometry, 349 (1997) 333

# Electrothermal atomic absorption spectrometry

The determination of caesium and silver in soil and fungal fruiting bodies by electrothermal atomic absorption spectrometry, 327 (1996) 53

Determination of bismuth in cod muscle, lake and river sediment by flow injection on-line sorption preconcentration in a knotted reactor coupled with electrothermal atomic absorption spectrometry, 354 (1997) 7

Determination of Co and Ni in soils and river sediments by electrothermal atomic absorption spectrometry with slurry sampling, 355 (1997) 277

Investigation of thallium hydride generation using in situ trapping in graphite tube by atomic absorption spectrometry, 360 (1998) 209

Comparison of chemical modifiers used for the determination of gold in ores by electrothermal atomic absorption spectrometry, 362 (1998) 247

Automatic determination of iron in geothermal fluids containing high dissolved sulfur-compounds using flow injection electrothermal atomic absorption spectrometry with an on-line microwave radiation precipitation-dissolution system, 366 (1998) 295

- Electrothermic factors optimization in electrothermal atomic absorption spectrometry via an optimal experimental design matrix, 368 (1998) 59
- On-line separation and preconcentration of cadmium, lead and nickel in a fullerene (C<sub>60</sub>) minicolumn coupled to flow injection tungsten coil atomic absorption spectrometry, 368 (1998) 255
- Wet sample digestion for quantification of vanadium(V) in serum by electrothermal atomic absorption spectrometry, 386 (1999) 145
- Evaluation of an immobilised macrocyclic material for on-line column preconcentration and separation of cadmium, copper and lead for electrothermal atomic absorption spectrometry, 392 (1999) 55

### Electrothermal atomic absorption spectroscopy

Spectroscopic factors optimization in electrothermal atomic absorption spectrometry via an optimal experimental design matrix, 350 (1997) 171

# Electrothermal atomic adsorption spectrometry

Determination of bismuth in environmental samples with Mg-W cell-electrothermal atomic absorption spectrometry, 379 (1999) 169

#### Electrothermal atomisation

- Electrothermal atomic absorption spectrometric determination of molybdenum, aluminium, chromium and manganese in milk, 356 (1997) 267
- Electrothermal atomic absorption spectrometric determination of lead in calcium drug samples by direct atomization technique, 362 (1998) 279
- Analytical characterization of supramolecular species determination of ruthenium and osmium in dendrimers by electrothermal atomic absorption spectrometry, 375 (1998) 285
- Empirical modelling of interferences in electrothermal atomization atomic absorption spectrometry, 376 (1998) 293
- Rapid determination of lead and cadmium in biological fluids by electrothermal atomic absorption spectrometry using Zeeman correction, 390 (1999) 207
- Use of hydrofluoric acid to decrease the background signal caused by sodium chloride in electrothermal atomic absorption spectrometry, 396 (1999) 279

# Electrothermal vaporization

- Determination of metallo-organic species in lubricating oil by electrothermal vaporization inductively coupled plasma mass spectrometry, 320 (1996) 11
- Determination of Hg and Bi by electrothermal vaporization inductively coupled plasma mass spectrometry using vapor generation with in situ preconcentration in a platinum-coated graphite furnace, 353 (1997) 173
- Determination of Cu, Zn, Cd and Pb in fish samples by slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry, 359 (1998) 205
- Determination of Ge, As, Se, Cd and Pb in plant materials by slurry sampling-electrothermal vaporization-inductively coupled plasma-mass spectrometry, 372 (1998) 365
- Solid sampling electrothermal vaporization inductively coupled plasma mass spectrometry for the direct determination of Hg in sludge samples, 383 (1999) 253

# Electrothermic factors optimization

Electrothermic factors optimization in electrothermal atomic absorption spectrometry via an optimal experimental design matrix, 368 (1998) 59

#### Element 106

Search for chemical separation of element 106 homologues in HF and HF-HCl media, 332 (1996) 257

### Element speciation

Element determination by total-reflection X-ray fluorescence spectrometry at the initial step of element speciation in biological matrices, 309 (1995) 327

### Element versus time profiles

Use of laser ablation inductively coupled plasma mass spectrometry to provide element versus time profiles in teeth, 395 (1999)

## Elemental analysis

- Oxygen bomb combustion ion chromatography for elemental analysis of heteroatoms in fuel and wastes development, 315 (1995)
- Elemental analysis of chemical wastes by oxygen bomb combustion-ion chromatography, 334 (1996) 51
- Elemental analysis of powders by glow discharge mass spectrometry, 395 (1999) 165

# Elemental response ratios

Elemental composition determination of organophosphorus compounds using gas chromatography and atomic emission spectrometric detection, 340 (1997) 181

### Elimination of interferents

Glucose oxidase/polyion complex-bilayer membrane for elimination of electroactive interferents in amperometric glucose sensor, 364 (1998) 173

### ELISA

- A piezoelectric immunosensor for hepatitis viruses, 309 (1995)
- Validation of two immunoassay methods for environmental monitoring of carbaryl and 1-naphthol in ground water samples. 311 (1995) 319
- Development of immunoassays for the analysis of chlorpyrifos and its major metabolite 3,5,6-trichloro-2-pyridinol in the aquatic environment, 311 (1995) 341
- Enzyme immunoassays for s-triazine herbicides and their application in environmental and food analysis, 311 (1995) 349
- Determination of atrazine and alachlor in natural waters by a rapidmagnetic particle-based ELISA Influence of common crossreactants: deethylatrazine, deisopropylatrazine, simazine and metolachlor, 311 (1995) 357
- Application of a monoclonal antibody-based ELISA to the determination of carbaryl in apple and grape juices, 311 (1995) 365
- Determination of Procymidone in vegetables by a commercial competitive inhibition enzyme immunoassay, 311 (1995) 371

- Environmental analysis in the workplace; development of airborne monitoring systems for potentially harmful pharmaceuticals: an improved rapid ELISA for ceftazidime, 311 (1995) 377
- Application of immunological methods for the determination of environmental pollutants in human biomonitoring. A review, 311 (1995) 383
- Hemoglobin interference with an enzyme-linked immunosorbent assay for the detection of tumor necrosis factor-alpha, 313 (1995)
- Sources of experimental variation in calibration curves for enzymelinked immunosorbent assay, 313 (1995) 197
- Broadening the antibody specificity by hapten design for an enzyme-linked immunoassay as an improved screening method for the determination of nitroaromatic residues in soils, 315 (1995) 279
- Environmental analysis in the workplace; development of a rapid, sensitive ELISA for monitoring airborne alcalase, 316 (1995) 247
- Enhancement of ELISA sensitivity for the detection of rabbit anti-HIV antibodies using APAAP complex, 319 (1996) 265
- Immunoaffinity column chromatography against forskolin using an anti-forskolin monoclonal antibody and its application, 335 (1996) 63
- Determination of pentachlorophenol in certified waste waters, soil samples and industrial effluents using ELISA and liquid solid extraction followed by liquid chromatography, 346 (1997) 49
- Enzyme immunoassay using peroxidase as a label and a dip-strip test for monitoring residual bacitracin in chicken plasma, 346 (1997) 207
- A monoclonal immunoassay for carbofuran and its application to the analysis of fruit juices, 347 (1997) 103
- Multianalyte effect in the determination of cross-reactivities of pesticide immunoassays in water matrices, 347 (1997) 121
- Preparation of antisera and development of a direct enzyme-linked immunosorbent assay for the determination of the antifouling agent Irgarol 1051, 347 (1997) 139
- Development of a highly sensitive enzyme-linked immunosorbent assay for atrazine Performance evaluation by flow injection immunossay, 347 (1997) 149
- Prototype of a newly developed immunochemical detection system for the determination of pesticide residues in water, 347 (1997) 187
- Strengths and limitations of immunoassays for effective and efficient use for pesticide analysis in water samples: A review, 362 (1998) 3
- Optical immunoprobe development for multiresidue monitoring in water. 362 (1998) 69
- Development of an enzyme-linked immunosorbent assay (ELISA) for antitumor agent MKT 077, 362 (1998) 177
- Enzyme-linked immunosorbent assay for plasma 24,25-dihydroxyvitamin D<sub>3</sub>, 365 (1998) 151
- Determination of PAHs in river water samples by ELISA, 376 (1998) 49
- Expanding the role of environmental immunoassays: technical capabilities, regulatory issues, and communication vehicles, 376 (1998) 55

- Microwave-assisted extraction of atrazine from soil followed by rapid detection using commercial ELISA kit, 371 (1998) 97
- A high-throughput ELISA system for surface water and groundwater analysis, 376 (1998) 61
- Analysis of soil and dust samples for polychlorinated biphenyls by enzyme-linked immunosorbent assay (ELISA), 376 (1998) 67
- Hapten design for compound-selective antibodies: ELISAS for environmentally deleterious small molecules, 376 (1998) 83
- Development of a competitive enzyme-linked immunosorbent assay based on a monoclonal antibody for a fungicide flutolanil, 376 (1998) 93
- Quantification of 2,4,5-trichlorophenoxyacetic acid by fluorescence enzyme-linked immunosorbent assay with secondary antibody, 378 (1999) 219
- CCD-camera based capillary chemiluminescent detection of retinol binding protein, 387 (1999) 21
- Direct application of an enzyme-linked immunosorbent assay method for carbaryl determination in fruits and vegetables. Comparison with a liquid chromatography–postcolumn reaction fluorescence detection method, 387 (1999) 245
- Development of an enzyme-linked immunosorbent assay for benalaxyl and its application to the analysis of water and wine, 392 (1999) 85
- Determination of permethrin in indoor air by liquid chromatography with enzyme linked immunosorbent assay, 393 (1999) 103
- Potential of immunoextraction coupled to analytical and bioanalytical methods (liquid chromatography, ELISA kit and phosphatase inhibition test) for an improved environmental monitoring of cyanobacterial toxins, 399 (1999) 75
- Flow injection immunoaffinity analysis (FIIAA) A screening technology for atrazine and diuron in water samples, 399 (1999) 89
- Development and validation of an ELISA for metolachlor mercapturate in urine, 399 (1999) 109
- Immunochemical test to monitor human exposure to polycyclic aromatic hydrocarbons: urine as sample source, 399 (1999) 115
- A modified enzyme-linked immunosorbent assay (ELISA) for polyaromatic hydrocarbons, 399 (1999) 127
- Microplate immunoassay technique using polyelectrolyte carriers: kinetic studies and application to detection of the herbicide atrazine, 399 (1999) 151
- A new technique to measure bird's dietary exposure to pesticides, 399 (1999) 173

### **ELISA** kits

Investigation of indicative methods in the Netherlands: validation of several commercial ELISAs for pesticides, 399 (1999) 1431

### **ELISA** microtiter plates

Validation of commercially available ELISA microtiter plates for triazines in water samples, 311 (1995) 331

# Ellagic acid

Effective purification of ellagic acid by successive automatic recrystallization and absolute determination of purity by absorptivity ratio, 338 (1997) 247

### Ellipsometry

Ellipsometric determination of the structure of surface-stabilized bilayer lipid membranes on silver metal, 357 (1997) 73

#### ELRA

Development of an enzyme linked receptor assay (ELRA) for estrogens and xenoestrogens, 386 (1999) 191

#### Elution behaviour

Modelling of the elution behaviour in hybrid micellar eluents with different organic modifiers, 381 (1999) 275

# Elution by monosegmentation

Selective flow-injection quantification of ultra-trace amounts of Cr(VI) via on-line complexation and preconcentration with APDC followed by determination by electrothermal atomic absorption spectrometry, 366 (1998) 163

### **Elution profiles**

Determination of componentwise chromatographic elution regions using singular value evolving profiles, 334 (1996) 15

#### **EMF** stability

Enhancing EMF stability of solid-state ion-selective sensors by incorporating lipophilic silver-ligand complexes within polymeric films, 321 (1996) 173

#### **EMG** function

A computational study on the effect of random noise on the precision and accuracy of the integration of chromatographic peaks, 388 (1999) 187

### **Emission monitoring**

Pentachlorophenol detection at the source of emission . Sampling equipment and immunochemical analysis, 359 (1998) 321

Laser-induced plasma spectroscopy (LIPS): a versatile tool for monitoring heavy metal aerosols, 392 (1999) 47

# **Emission spectra**

Ultraviolet laser-induced fluorescence detection strategies in capillary electrophoresis: determination of naphthalene sulphonates in river water, 360 (1998) 109

### **Empirical modeling**

Empirical modelling of interferences in electrothermal atomization atomic absorption spectrometry, 376 (1998) 293

A common framework for the unification of neural, chemometric and statistical modeling methods, 384 (1999) 227

### **Empirical regression equation**

Separation of barbiturates in micellar liquid chromatography by means of a multifactor design, 356 (1997) 19

### Emulsion

Overcoming the pH dependency of optical sensors: a pH-independent chloride sensor based on co-extraction, 398 (1999) 137

# **Emulsion polymers**

Physical study of film-forming acrylate emulsion polymers for biosensor applications, 349 (1997) 131

### **Enantiomer separation**

Chiral separations using heparin and dextran sulfate in capillary zone electrophoresis, 307 (1995) 185

Study on the chiral separation of basic drugs by capillary zone electrophoresis using  $\beta$ -CD and derivatized  $\beta$ -CDs as chiral selectors, 359 (1998) 39

Supercritical fluid extraction for selective extraction of enantiomers, 391 (1999) 253

### **Enantiomeric purity**

Measurement of enantiomeric purity by ratio chromatograms with a photometric detector using quartz plates as a multiple retarder, 396 (1999) 125

#### **Enantiomeric resolution**

Continuous-flow discrimination of L- and D-histidine, 375 (1998) 99

#### Enantiomeric selective

Synthesis of enantiomeric selective α<sub>1</sub>-acid glycoprotein (AGP)bonded capillary and its application in capillary electrophoresis, 373 (1998) 207

# **Enantiomeric separation**

Enantiometric separation of di- and tri-peptides with chiral fluorescence labeling reagents by liquid chromatography, 314 (1995) 169

Enantiomeric separation of six 2-arylpropionic acids after precolumn derivatization with various amines and alcohols on a cellulose-based chiral stationary phase, 321 (1996) 245

### Enantiomers

Enantiomeric separation of some piperidine-2,6-dione drugs on tolylcellulose by liquid chromatography, 346 (1997) 183

### Enantioselective permeation

Molecularly imprinted polymeric membranes involving tetrapeptide EQKL derivatives as chiral-recognition sites toward amino acids, 365 (1998) 59

### **Encapsulated polymeric membranes**

Electroanalytical and surface characterization of encapsulated implantable membrane planar microsensors, 314 (1995) 1

### End-column

Application of microband array electrodes for end-column electrochemical detection in capillary electrophoresis, 385 (1999) 409

### **Endocrine disruptors**

Development of an enzyme linked receptor assay (ELRA) for estrogens and xenoestrogens, 386 (1999) 191

### **Endogenous interference**

A creatinine deiminase modified polyaniline electrode for creatinine analysis, 392 (1999) 143

# **Energy interferences**

Multielement instrumental activation analysis based on gammagamma coincidence spectroscopy, 386 (1999) 181

# **Energy transfer**

Application of binaphthyl-based amphiphiles Determination of benzo[a]pyrene by fluorescence energy transfer, 306 (1995) 323 Sensitivity enhancement of fluorescent pH indicators using pHdependent energy transfer, 313 (1995) 131

Investigation of fluorescence efficiency in the europium-thenoyltrifluoroacetone chelate in aqueous and ethanolic solutions by laser-induced fluorescence and photothermal spectroscopic methods, 317 (1995) 343

Efficient quenching of the fluorescence of binaphthyl-based amphiphiles by mercury(II) complexes, 320 (1996) 115

Determination of copper at ng ml<sup>-1</sup>-levels based on quenching of the europium chelate luminescence, 364 (1998) 125

Energy transfer-based lifetime sensing of chloride using a luminescent transition metal complex, 364 (1998) 143

Microsecond lifetime-based optical carbon dioxide sensor using luminescence resonance energy transfer, 382 (1999) 67

Highly sensitive electrochemical luminescence determination of thiamine, 394 (1999) 165

#### EnFET

Computational neural networks for the evaluation of biosensor FIA measurements, 348 (1997) 135

Polyurethane–acrylate photocurable polymeric membrane for ionsensitive field-effect transistor based urea biosensors, 389 (1999)

### Enhanced chemiluminescence

Hydrogen peroxide assay by using enhanced chemiluminescence of the luminol-H<sub>2</sub>O<sub>2</sub>-horseradish peroxidase system: Comparative studies, 327 (1996) 161

### Enhanced chemiluminescence imaging detection

Application of Western-blotting technique with chemiluminescence imaging to the study of haptoglobin type and haptoglobin complexes, 362 (1998) 113

### Enhancement effect

Studies on monoxide flame emission spectrometry of rare-earth elements. Part 2. Determination of yttrium in rare-earth concentrates by the dual wavelength method, 344 (1997) 291

Studies on monoxide emission spectrometry of rare-earth elements.
IV. Simultaneous determination of Sm, Eu, Gd in Sm-Eu-Gd concentrates by the dual wavelength method, 350 (1997) 365

### **Entrapment immobilisation**

Polyurethane-acrylate photocurable polymeric membrane for ionsensitive field-effect transistor based urea biosensors, 389 (1999) 179

### Entrapped enzymes

High sensitive bienzymic sensor for the detection of dithiocarbamate fungicides, 347 (1997) 63

### Environment

SI-traceable values for cadmium and lead concentration in the candidate reference material, MURST-ISS A1 Antarctic sediment, by combination of ICP-MS with isotope dilution, 346 (1997) 17

### Environmental

A high-throughput ELISA system for surface water and groundwater analysis, 376 (1998) 61 An environmental study by factor analysis of surface seawaters in the Gulf of Valencia (Western Mediterranean), 394 (1999) 109

### **Environmental analysis**

Determination of phenols in sea water by liquid chromatography with electrochemical detection after enrichment by using solidphase extraction cartridges and disks, 304 (1995) 75

Rapid determination of mercury in environmental materials using on-line microwave digestion and atomic fluorescence spectrometry, 308 (1995) 364

Investigation of the quartz resonator as an industrial cleaning monitor, 309 (1995) 53

Development of an improved on-line chromatographic monitor with new methods for environmental and process control, 310 (1995)

Optimization of supercritical fluid extraction for polychlorinated biphenyls from sediments, 310 (1995) 93

Comparative study of on-line solid phase extraction followed by UV and electrochemical detection in liquid chromatography for the determination of priority phenols in river water samples, 311 (1995) 63

Optimised simultaneous multi-element analysis of environmental slurry samples by inductively coupled plasma atomic emission spectrometry using a segmented array charge-coupled device detector, 311 (1995) 123

Determination of lead isotopic ratios in Greenland and Antarctic snow and ice at picogram per gram concentrations, 311 (1995)

The development of a peroxidase biosensor for monitoring phenol and related aromatic compounds, 311 (1995) 245

A biosensor as warning device for the detection of cyanide, chlorophenols, atrazine and carbamate pesticides, 311 (1995) 255

Validation of an enzymatic biosensor with various liquid chromatographic techniques for determining organophosphorus pesticides and carbaryl in freeze-dried waters, 311 (1995) 265

Development of an optical flow-through biosensor for the determination of sulphite in environmental samples, 311 (1995) 281

Validation of two immunoassay methods for environmental monitoring of carbaryl and 1-naphthol in ground water samples, 311 (1995) 319

Validation of commercially available ELISA microtiter plates for triazines in water samples, 311 (1995) 331

Development of immunoassays for the analysis of chlorpyrifos and its major metabolite 3,5,6-trichloro-2-pyridinol in the aquatic environment, 311 (1995) 341

Enzyme immunoassays for s-triazine herbicides and their application in environmental and food analysis, 311 (1995) 349

Determination of atrazine and alachlor in natural waters by a rapidmagnetic particle-based ELISA Influence of common crossreactants: deethylatrazine, deisopropylatrazine, simazine and metolachlor, 311 (1995) 357

Application of a monoclonal antibody-based ELISA to the determination of carbaryl in apple and grape juices, 311 (1995)

Determination of Procymidone in vegetables by a commercial competitive inhibition enzyme immunoassay, 311 (1995) 371

- Environmental analysis in the workplace; development of airborne monitoring systems for potentially harmful pharmaceuticals: an improved rapid ELISA for ceftazidime, 311 (1995) 377
- Application of immunological methods for the determination of environmental pollutants in human biomonitoring. A review, 311 (1995) 383
- Immunochemical techniques: antibody production for pesticide analysis. A review, 311 (1995) 393
- Water quality control in the production of drinking water from river water. The application of immunological techniques for the detection of chlorophenoxy acid herbicides (2,4-D), 311 (1995) 407
- Application of radioimmunoassay in the screening of polychlorinated biphenyls in cow's milk, 311 (1995) 415
- Extension of the bioautograph technique for multiresidue determination of fungicide residues in plants and water, 311 (1995) 423
- On-line preconcentration and liquid chromatographic analysis of phenylurea pesticides in environmental water using a silicabased immunosorbent, 311 (1995) 429
- Entrapment of chloroplasts and thylakoids in polyvinylalcohol-SbQ.

  Optimization of membrane preparation and storage conditions,
  311 (1995) 437
- Detection of mixtures of organic pollutants in water by polymer film receptors in fibre-optical sensors based on reflectometric interference spectrometry, 312 (1995) 1
- Determination of nitrobenzenes in river water, sediment and fish samples by gas chromatography-mass spectrometry, 312 (1995) 45
- Speciation of tin by reversed phase liquid chromatography with inductively coupled plasma mass spectrometric detection, 312 (1995) 141
- Applicability of low temperature high-resolution fluorescence spectroscopy to the analysis of nitro and amino polycyclic aromatic hydrocarbons, 312 (1995) 165
- A novel microbial sensor for the determination of cyanide, 313 (1995) 69
- On-line flow injection monitoring of ammonia in industrial liquid effluents, 314 (1995) 33
- Liquid chromatographic determination of triphenyltin and tributyltin using fluorimetric detection, 314 (1995) 175
- Determination of octanol-water partition coefficients using gradient liquid chromatography, 315 (1995) 183
- Improved titanium method for determination of atmospheric H<sub>2</sub>O<sub>2</sub>, 315 (1995) 225
- Broadening the antibody specificity by hapten design for an enzyme-linked immunoassay as an improved screening method for the determination of nitroaromatic residues in soils, 315 (1995) 279
- Oxygen bomb combustion ion chromatography for elemental analysis of heteroatoms in fuel and wastes development, 315 (1995) 347
- Plant tissue electrode for the determination of atrazine, 316 (1995) 79
- Determination of volatile sulfur compounds in water samples, beer and coffee with purge and trap gas chromatography-microwaveinduced plasma atomic emission spectrometry, 316 (1995) 93

- Environmental analysis in the workplace; development of a rapid, sensitive ELISA for monitoring airborne alcalase, 316 (1995) 247
- Hollow fiber cartridges for removal of particulate matter from natural waters prior to matrix isolation and trace metal enrichment using an 8-quinolinol chelating ion exchanger in a flow system, 316 (1995) 305
- Elucidating the composition of atmospheric aerosols through the combined hierarchical, non-hierarchical and fuzzy clustering of large electron probe microanalysis data sets, 317 (1995) 33
- How chemometrics can helpfully assist in evaluating environmental data. Lagoon water, 317 (1995) 53
- Evaluation of sample preparation methods for organotin speciation analysis in sediments - focus on monobutyltin extraction, 317 (1995) 161
- Amperometric method for the determination of nitrate in water, 317 (1995) 287
- On-line sample handling strategies for the trace-level determination of pesticides and their degradation products in environmental waters, 318 (1995) 1
- Determination of <sup>60</sup>Co in environmental water samples by a hydrous magnesium oxide filter, 318 (1996) 391
- On-line multicomponent determination of organic compounds in water following gel permeation chromatographic separation, 319 (1996) 165
- An approach to the construction of an immunoarray for differentiating and quantitating cross reacting analytes, 319 (1996) 291
- Preconcentration and separation of acaricides by polyether based polyurethane foam, 320 (1996) 277
- Determination of sub-nanomolar concentration of arsenic(III) in natural waters by square wave cathodic stripping voltammetry, 325 (1996) 25
- UV-photooxidation as pretreatment step in inorganic analysis of environmental samples, 325 (1996) 111
- Magnetic recovery of radium, lead and polonium from seawater samples after preconcentration on a magnetic adsorbent of manganese dioxide coated magnetite, 328 (1996) 53
- Acid-base properties of a river sediment: applicability of potentiometric titrations, 329 (1996) 33
- Alternative indirect method for sulfate determination in natural samples, 329 (1996) 197
- Stability of bacterium-mercury complexes and speciation of soluble inorganic mercury species, 330 (1996) 89
- Thermal lens spectrometric determination of hexavalent chromium, 330 (1996) 245
- Shpol'skii spectroscopy as a tool in environmental analysis for amino- and nitro-substituted polycyclic aromatic hydrocarbons: A critical evaluation, 333 (1996) 193
- Molecular size distribution and spectroscopic properties of aquatic humic substances, 337 (1997) 133
- Enhancing the performance of membrane introduction mass spectrometry by organic carrier and liquid chromatographic separation, 337 (1997) 165
- A study of the applicability of various ionization methods and tandem mass spectrometry in the analyses of triphenyltin compounds, 340 (1997) 5

Determination of phenols in water by on-line solid-phase disk extraction and liquid chromotography with electrochemical detection, 340 (1997) 191

Monitoring proteolytic enzymes for health and safety in the manufacturing environment. A review, 347 (1997) 235

Membrane introduction mass spectrometry, 350 (1997) 257

The development of the significant peak selection method using the mutual information and its completeness, 351 (1997) 387

Isomer-specific detection of azaarenes in environmental samples by Shpol'skii luminescence spectroscopy, 354 (1997) 181

Evaluation of total luminescence data with chemometrical methods: . a tool for environmental monitoring, 356 (1997) 61

Pentachlorophenol detection at the source of emission . Sampling equipment and immunochemical analysis, 359 (1998) 321

Ultraviolet laser-induced fluorescence detection strategies in capillary electrophoresis: determination of naphthalene sulphonates in river water, 360 (1998) 109

Speciation of chromium by solid-phase extraction coupled to reversed-phase liquid chromatography with UV detection, 364 (1998) 31

New trends in environmental trace-analysis of organic pollutants: class-selective immunoextraction and clean-up in one step using immunosorbents, 376 (1998) 21

Monitoring Pb2+ with optical sensing films, 388 (1999) 327

Development of a bioanalytical phosphatase inhibition test for the monitoring of microcystins in environmental water samples, 394 (1999) 243

New organosilicon polymer for the extraction and luminescence analysis of uranyl in environmental samples, 396 (1999) 263

# **Environmental monitoring**

DNA electrochemical biosensors for environmental monitoring. A review, 347 (1997) 1

Improvement of Tc separation procedure using a chromatographic resin for direct measurement by ICP-MS, 357 (1997) 1

Remote electrochemical sensor for monitoring TNT in natural waters, 361 (1998) 85

Optical immunoprobe development for multiresidue monitoring in water, 362 (1998) 69

Expanding the role of environmental immunoassays: technical capabilities, regulatory issues, and communication vehicles, 376 (1998) 55

Modeling bio-geochemical interactions in the surface waters of the Gulf of Trieste by three-way principal component analysis (PCA), 398 (1999) 227

Flow injection immunoaffinity analysis (FIIAA) — A screening technology for atrazine and diuron in water samples, 399 (1999) 89

### **Environmental pollution**

Hair analysis. Part 1: Differential pulse anodic stripping voltammetric determination of lead, cadmium, zinc and copper in human hair samples of persons in permanent contact with a polluted workplace environment, 335 (1996) 201

Hair analysis. Part 2. Differential pulse anodic stripping voltammetric determination of thallium in human hair samples of persons in permanent contact with lead in their workplace, 343 (1997) 225

### **Environmental samples**

Analysis of arsenic(V) by cathodic stripping voltammetry, 306 (1995) 217

Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for the determination of zinc by flame atomic absorption spectrometry, 309 (1995) 395

Studies on the reaction between cadmium and potassium tetrahydroborate in aqueous solution and its application in atomic fluorescence spectrometry, 310 (1995) 377

Flow injection on-line coprecipitation-preconcentration system using copper(II) diethyldithiocarbamate as carrier for flame atomic absorption spectrometric determination of cadmium, lead and nickel in environmental samples, 353 (1997) 181

Platinum determination by instrumental neutron activation analysis with special reference to the spectral interference of Sc-47 on the platinum indicator nuclide Au-199, 360 (1998) 243

Determination of zinc in environmental samples by anodic stripping voltammetry, 376 (1998) 197

Optimised method for the routine determination of Technetium-99 in environmental samples by liquid scintillation counting, 380 (1999) 73

### **Environmental screening test**

Functionalization of nitrocellulose membranes using ammonia plasma for the covalent attachment of antibodies for use in membrane-based immunoassays, 376 (1998) 133

### **Environmental sensors**

In situ detection of trinitrotoluene and other nitrated explosives in soils, 341 (1997) 63

Stripping analysis into the 21st century: faster, smaller, cheaper, simpler and better, 385 (1999) 429

# **Environmental water sample**

Use of an immunomagnetic separation-fluorescent immunoassay (IMS-FIA) for rapid and high throughput analysis of environmental water samples, 376 (1998) 77

# **Environmental waters**

Simultaneous determination of common inorganic anions, magnesium and calcium ions in various environmental waters by indirect UV-photometric detection ion chromatography using trimellitic acid-EDTA as eluent, 373 (1998) 189

### **Enzymatic analysis**

Enzyme immunoassays for s-triazine herbicides and their application in environmental and food analysis, 311 (1995) 349

### **Enzymatic assay**

Study and analytical application of bromopyrogallol red as a hydrogen donor substrate for peroxidase, 379 (1999) 63

# **Enzymatic determination**

Enzymatic determinations with rotating bioreactors: Determination of glutamate in food products, 369 (1998) 147

Microwave-assisted saponification of animal greases for cholesterol determination, 371 (1998) 297

### Enzymatic field effect transistor

Correlation between the electrical charge properties of polymeric membranes and the characteristics of ion field effect transistors or penicillinase based enzymatic field effect transistors, 331 (1996) 217

# **Enzymatic inhibition**

A transient enzymatic inhibition as an efficient tool for the discriminating bioluminescent analysis of three adenylic nucleotides with a fiberoptic sensor based on a compartmentalized trienzymatic sensing layer, 360 (1998) 89

### **Enzymatic methods**

- Chemically amplified xanthine and hypoxanthine sensors based on substrate recycling between the enzyme-substrate complex and substrate, 302 (1995) 21
- Chemiluminescence assays of organophosphorus and carbamate pesticides, 302 (1995) 53
- Development of enzyme cartridge flow-injection analysis for industrial process monitoring. Part II. Application for monitoring of microorganism cultivations, 302 (1995) 289
- Interaction of long-chain choline derivatives with firefly luciferase and their use as reagents for the extraction of intracellular ATP from microorganisms, 303 (1995) 85
- Determination of phthalate-induced rat liver cytochrome P-450 IVA1 by a fluorimetric enzymatic assay and by chemiluminescence detection on Western blots, 303 (1995) 99
- Development of a bio-thermochip and its application for the detection of glucose in urine, 303 (1995) 295
- An amperometric-enzymatic method for assays of inorganic phosphate and adenosine deaminase in serum based on the measurement of uric acid with a dialysis membrane-covered carbon electrode, 303 (1995) 301
- Internal enzyme fiber-optic biosensors for hydrogen peroxide and glucose, 304 (1995) 147
- Amperometric glucose biosensor manufactured by a printing technique, 304 (1995) 157
- A spectrophotometric assay for phospholipase D, 304 (1995) 249 Flow reversal and flow recycle air-segmented flow injection for
- simultaneous determination of a binary mixture, 304 (1995) 333 Chemiluminescent assay of alkaline phosphatase using phenacyl
- phosphate, 306 (1995) 161 β-Cyclodextrin cation exchange polymer membrane for improved second-generation glucose biosensors, 306 (1995) 201
- Self-driven coulometry of ethanol, d-glucose and d-fructose using ubiquinone-dependent dehydrogenase reactions, 306 (1995) 231
- Development of a microbial bioassay for chlorinated and brominated hydrocarbons, 306 (1995) 237
- Generalized model for enzyme amperometric biosensors, 307 (1995) 27
- First direct interfacial electron transfer between a biomolecule and a solid electrode in non-aqueous media: direct electrochemistry of microperoxidase-11 at glassy carbon in dimethyl sulfoxide solution, 307 (1995) 245
- Self-assembled monolayers and enzyme electrodes: progress, problems and prospects, 307 (1995) 277
- Optimization of amperometric microsensors for monitoring choline in the extracellular fluid of brain tissue, 307 (1995) 291

- New fluorescence tools for investigating enzyme activity, 307 (1995) 393
- Sequential enzymatic monitoring of glucose, ethanol and glutamate in bioreactor fermentation broth containing a high salt concentration by a multi-channel flow-injection analysis method, 308 (1995) 145
- Fluorimetric-flow injection determination of theophylline based on its inhibitory effect on immobilized alkaline phosphatase, 308 (1995) 159
- Enzyme immobilization on an epoxy matrix. Determination of /-arginine by flow-injection techniques, 308 (1995) 164
- Spectrofluorimetric flow-injection determination of potassium in serum based on enzyme activation, 308 (1995) 178
- A novel enzyme sensor for the determination of inorganic phosphate, 309 (1995) 47
- Highly sensitive immunological assays for human chorionic gonadotrophin and prostatic acid phosphatase using phenacyl phosphate as a chemiluminescent label, 309 (1995) 221
- Selective flow-injection determination of methanol using immobilized enzyme reactors, 309 (1995) 241
- Determination of enzyme substrates with an extended range of linearity, 309 (1995) 251
- Flow-injection stopped-flow spectrofluorimetric kinetic determination of total ascorbic acid based on an enzyme-linked coupled reaction, 309 (1995) 271
- Chemiluminescent enzymatic assay for cholesterol in serum using lucigenin, 310 (1995) 347
- Development of amperometric biosensors based on the immobilization of enzymes in polymer films electrogenerated from a series of amphiphilic pyrrole derivatives, 311 (1995) 23
- Determination of branched-chain /-amino acids by flow-injection analysis with co-immobilized leucine dehydrogenase/NADH oxidase and chemiluminescence detection, 311 (1995) 71
- Optical control of enzymatic conversion of sucrose to glucose by bacteriorhodopsin incorporated into self-assembled phosphatidylcholine vesicles, 311 (1995) 211
- A biosensor as warning device for the detection of cyanide, chlorophenols, atrazine and carbamate pesticides, 311 (1995) 255
- Validation of an enzymatic biosensor with various liquid chromatographic techniques for determining organophosphorus pesticides and carbaryl in freeze-dried waters, 311 (1995) 265
- New immunoassay techniques using Nafion-modified electrodes and cationic redox labels or enzyme labels, 311 (1995) 301
- Determination of atrazine and alachlor in natural waters by a rapidmagnetic particle-based ELISA Influence of common crossreactants: deethylatrazine, deisopropylatrazine, simazine and metolachlor, 311 (1995) 357
- Determination of Procymidone in vegetables by a commercial competitive inhibition enzyme immunoassay, 311 (1995) 371
- Application of immunological methods for the determination of environmental pollutants in human biomonitoring. A review, 311 (1995) 383
- Use of conductimetry for the monitoring of thermodynamicallycontrolled enzymatic peptide synthesis, 312 (1995) 213
- Monitoring of enzymatic hydrolysis of ivory nut mannan using online microdialysis sampling and anion-exchange chromatogra-

- phy with integrated pulsed electrochemical detection, 313 (1995) 15
- Sources of experimental variation in calibration curves for enzymelinked immunosorbent assay, 313 (1995) 197
- Amperometric ℓ-lactate-sensing electrode based on a polyion complex layer containing lactate oxidase. Application to serum and milk samples, 314 (1995) 233
- A microplate technique for phospholipase D activity determination, 315 (1995) 109
- Broadening the antibody specificity by hapten design for an enzyme-linked immunoassay as an improved screening method for the determination of nitroaromatic residues in soils, 315 (1995) 279
- Enzyme biosensors for urea determination based on an ionophore free pH membrane electrode, 315 (1995) 289
- Bi-enzyme amperometric d-lactate sensor using macromolecular NAD\*, 315 (1995) 297
- Regenerated silk fibroin membrane as immobilization matrix for peroxidase and fabrication of a sensor for hydrogen peroxide utilizing methylene blue as electron shuttle, 316 (1995) 65
- An on-line flow-injection analysis system for the determination of acetate, 316 (1995) 117
- Micelle enhanced spectrofluorimetric assay for laccase activity by a flow-injection stopped-flow technique, 318 (1995) 63
- Amperometric determination of cholesterol in serum with use of a renewable surface peroxidase electrode, 318 (1995) 89
- Determination of acetylcholine and choline with platinum-black ultramicroarray electrodes using liquid chromatography with a post-column enzyme reactor, 318 (1996) 167
- Chemometric methods for the development of a biosensor system and the evaluation of inhibition studies with solutions and mixtures of pesticides and heavy metals Part 1. Development of an enzyme electrodes system for pesticide and heavy metal screening using selected chemometric methods, 318 (1996) 275
- A bienzyme modified carbon paste electrode for the amperometric detection of L-lactate at low potentials, 319 (1996) 79
- Continuous fluorimetric assay for human aldehyde dehydrogenase and its application to blood analysis, 319 (1996) 209
- Kinetics and performance of a mediated biosensor for hypoxanthine using deflavo xanthine oxidase, 319 (1996) 325
- On-line monitoring of glucose and penicillin by sequential injection analysis, 320 (1996) 199
- Penicillin enzyme biosensors based on pH membrane electrodes, 321 (1996) 27
- Glucose-sensitive ion-sensitive field-effect transistor-based biosensor with additional positively charged membrane Dynamic range extension and reduction of buffer concentration influence on the sensor response, 322 (1996) 77
- Determination of the concentration of higher alcohols with enzyme coupled flow-injection analysis in model systems, 322 (1996) 131
- Parameters which influence the optimal immobilisation of oxidase type enzymes on methacrylate copolymers as demonstrated for amperometric biosensors, 323 (1996) 87
- Flow injection analysis of paraoxon with the use of an immobilized acetylcholinesterase reactor, 324 (1996) 21

- Automated determination of lactulose in milk using an enzyme reactor and flow analysis with integrated dialysis, 324 (1996) 37
- Multivariate evaluation of inhibition studies on an enzyme electrodes system with pesticides and mixtures of mercury and pesticides, 325 (1996) 1
- Electrocatalytic detection of nicotinamide coenzymes by poly(oaminophenol) - and poly(o-phenylenediamine) -modified carbon paste electrodes, 325 (1996) 33
- Selective flow injection procedures for the determination of nitrogen containing analytes by gasdialytic-fluorimetric detection of enzymatically generated ammonia, 325 (1996) 93
- Flow-through tyrosinase enzyme reactor based on reticulated vitreous carbon functionalized by an electrochemically synthesized film, 326 (1996) 149
- Electroluminescent detection of enzymatically generated hydrogen peroxide, 327 (1996) 253
- Determination of butyltin compounds in marine biological samples by enzymatic hydrolysis and HG-GC-QFAAS detection, 327 (1996) 287
- Direct electrocatalytic determination of dissolved peroxidases, 329 (1996) 231
- Highly rugged kinetic method for the enzymatic determination of DNA in agarose gel with array detection using a charge coupled device, 329 (1996) 285
- Peroxidase-modified electrodes: Fundamentals and application, 330 (1996) 123
- Pervaporation: An interface between fermentors and monitoring, 330 (1996) 265
- Chiral interaction of a polyclonal anti-dinitrophenyl antibody with dinitrophenyl-amino acids determined by an enantioselective enzyme-linked immunosorbent assay, 332 (1996) 285
- Biomimic of peroxidase and enzymatic assay for ascorbic acid, 334 (1996) 303
- A coupled enzymatic assay for salicylate and acetylsalicylate using salicylate hydroxylase and tyrosinase, 335 (1996) 169
- Sol-gel derived, ferrocenyl-modified silicate-graphite composite electrode: Wiring of glucose oxidase, 336 (1996) 95
- Inaccuracy of the Bradford method for the determination of protein concentration in steroid-horseradish peroxidase conjugates, 337 (1997) 93
- Determination of anticholinesterase pesticides in real samples using a disposable biosensor, 337 (1997) 315
- Chemiluminescence assay of alkaline phosphatase using cortisol-21-phosphate as substrate and its application to enzyme immunoassays, 337 (1997) 335
- Amperometric enzyme electrode for the determination of urine oxalate, 343 (1997) 59
- Simultaneous enzymatic spectrophotometric determination of ethanol and methanol by use of artificial neural networks for calibration, 398 (1999) 83

### **Enzymatic sensor**

- Use of photopolymerizable membranes based on polyacrylamide hydrogels for enzymatic microsensor construction, 351 (1997) 169
- Detection of uric acid with a new type of conducting polymer-based enzymatic sensor by bipotentiostatic technique, 385 (1999) 187

### **Enzyme** activity

Gas sensitive field-effect transistors: applications to the monitoring of biotechnological processes, 373 (1998) 253

Simultaneous determination of enzyme activities by FTIR-spectroscopy in an one-step assay, 391 (1999) 19

### **Enzyme amplification**

Mathematical model for the determination of enzyme activity based on enzymatic amplification by substrate cycling, 346 (1997) 215

### Enzyme amplified lanthanide luminescence immunoassay

Comparative study of fluorescent ternary terbium complexes. Application in enzyme amplified fluorimetric immunoassay for  $\alpha$ -fetoprotein, 335 (1996) 177

### Enzyme assay

Spectrophotometric assay for amidolytic activity of alkaline protease from Pseudomonas aeruginosa, 345 (1997) 219

Monitoring proteolytic enzymes for health and safety in the manufacturing environment. A review, 347 (1997) 235

### Enzyme catalytic reaction

Monitoring of enzyme catalysed reactions by Fourier transform Raman spectrometry, 370 (1998) 191

### **Enzyme characterization**

Electrophoretic methods for the isolation and characterization of enzymes, 383 (1999) 109

# Enzyme cycling

Mathematical model for the determination of enzyme activity based on enzymatic amplification by substrate cycling, 346 (1997) 215

# Enzyme electrodes

Amperometric flow injection determination of fructose in honey with a carbon paste sensor based on fructose dehydrogenase, 330 (1996) 71

Electron transfer between cellobiose dehydrogenase and graphite electrodes, 331 (1996) 207

Whole blood glucose determination using glucose oxidase immobilized on cotton cheese cloth, 338 (1997) 135

Amperometric detection of phenols using peroxidase-modified graphite electrodes, 347 (1997) 51

Simultaneous amperometric determination of some mono-, di-, and oligosaccharides in flow injection and liquid chromatography using two working enzyme electrodes with different selectivity, 349 (1997) 179

Amperometric glucose sensors based on ferrocene-containing Bpolyethylenimine and immobilized glucose oxidase, 353 (1997) 37

Glucose oxidase/polyion complex-bilayer membrane for elimination of electroactive interferents in amperometric glucose sensor, 364 (1998) 173

Potentiometric biosensor for control of biotechnological production of penicillin G, 368 (1998) 205

Amperometric biosensor for uric acid based on uricase-immobilized silk fibroin membrane, 369 (1998) 123

Potentiometric enzyme electrode in a flow injection system for the determination of urea in human serum samples, 369 (1998) 129

Immobilisation of enzyme throughout a polytyramine matrix: a versatile procedure for fabricating biosensors, 394 (1999) 211 Sol-gel materials for electrochemical biosensors, 399 (1999) 21

### **Enzyme immobilization**

Immobilized enzyme modulator microassay (IEMMA) for the detection of pesticide in fresh produce, 329 (1996) 297

Bienzymatic potentiometric electrodes for creatine and L-arginine determination, 333 (1996) 215

Physical study of film-forming acrylate emulsion polymers for biosensor applications, 349 (1997) 131

Non-aqueous flow-injection determination of atrazine by inhibition of immobilized tyrosinase, 362 (1998) 187

#### Enzyme immunoassay

Competitive nonseparation electrochemical enzyme binding/immunoassay (NEEIA) for small molecule detection, 357 (1997) 5

Stabilization of enzyme immunoassays for atrazine, 362 (1998)

Rapid method for assay of quantitative binding of soluble proteins and photosynthetic membrane proteins on poly(vinylidene difluoride) membranes, 365 (1998) 109

Preparation of a specific monoclonal antibody against 2'-deoxycytidine, 365 (1998) 121

Preparation of monoclonal antibody against p-3-methoxy-4-hydroxyphenylglycol, 365 (1998) 129

Syntheses of antigens conjugated with 3-methoxy-4-hydroxyphenylglycol by Mannich reaction for enzyme immunoassay, 365 (1998) 137

Clinical analysis of aldose reductase for differential diagnosis of the pathogenesis of diabetic complication, 365 (1998) 285

Immobilization of DNA on silver surface of bulk acoustic wave sensor and its application to the study of UV-C damage, 374 (1998) 31

Functionalization of nitrocellulose membranes using ammonia plasma for the covalent attachment of antibodies for use in membrane-based immunoassays, 376 (1998) 133

Simultaneous assay of pepsinogen I and pepsinogen II in serum by bioluminescent enzyme immunoassay using two kinds of *Luciola* lateralis luciferase, 395 (1999) 265

### Enzyme inhibition

Acid phosphatase/glucose oxidase-based biosensors for the determination of pesticides, 336 (1996) 67

Potentiometric determination of salicylhydroxamic acid (urinary struvite stone inhibitor) based on the inhibition of urease activity, 351 (1997) 91

The influence of metabolites on enzyme based flow injection analysis, 355 (1997) 55

Flow injection determination of neostigmine and galanthamine by immobilised acetylcholinesterase inhibition, 372 (1998) 379

Flow injection determination of chlorpromazine by inhibition of glutamate dehydrogenase, 387 (1999) 47

### Enzyme inhibition test

Inhibition behavior of acid phosphatase, phosphodiesterase I and adenosine deaminase as tools for trace metal analysis and speciation, 360 (1998) 101

### Enzyme isolation

Electrophoretic methods for the isolation and characterization of enzymes, 383 (1999) 109

### **Enzyme kinetics**

Stimuli-sensitive hydrogel material for biosensor-chemical trigger, 347 (1997) 27

#### Enzyme linked immuno sorbent assay

Optimization of a charge coupled device imaging enzyme linked immuno sorbent assay and supports for the simultaneous determination of multiple 2,4-D samples, 347 (1997) 87

#### Enzyme loading

Optimization of an inorganic/bio-organic matrix for the development of new glucose biosensor membranes, 364 (1998) 165

#### **Enzyme modifiers**

Automatic testing of enzyme modifiers by the flow-gradient technique, 308 (1995) 152

### **Enzyme modulators**

Immobilized enzyme modulator microassay (IEMMA) for the detection of pesticide in fresh produce, 329 (1996) 297

# Enzyme monolayers

Glucose oxidase electrodes via reconstitution of the apo-enzyme: tailoring of novel glucose biosensors, 385 (1999) 45

#### **Enzyme reactors**

Simultaneous quantitation of citrate and isocitrate in citrus juice by a flow-injection method based on the use of enzyme reactors, 321 (1996) 157

Simultaneous biosensing of inosine monophosphate and glutamate by use of immobilized enzyme reactors, 358 (1998) 127

Comparison of flow injection analytical biosystems based on opentube and packed-bed enzyme reactors, 370 (1998) 47

# Enzyme sensor

Preparation and properties of enzyme sensors for L-lactic and Dlactic acids in optical isomers, 368 (1998) 91

Application of reversible immobilization techniques for biosensors, 368 (1998) 197

### **Enzyme stabilization**

Dip-and-read test strips for the determination of trinitrotoluene (TNT) in drinking water, 396 (1999) 309

# Enzyme substrate

Stabilization of enzyme immunoassays for atrazine, 362 (1998) 35

# Enzyme tracer

Stabilization of enzyme immunoassays for atrazine, 362 (1998) 35

### Enzyme-antienzyme method

Enhancement of ELISA sensitivity for the detection of rabbit anti-HIV antibodies using APAAP complex, 319 (1996) 265

### **Enzyme-based biosensors**

Evaluation of alternative measurement and data-processing options for enzyme-based biosensors, 388 (1999) 231

### **Enzyme-catalyzed microreactions**

Optimization of capillary electrophoresis conditions for in-capillary enzyme-catalyzed microreactions, 397 (1999) 183

#### Enzymes

Amperometric detection of enzymes in capillary zone electrophoresis based on dynamic modification with surfactants, 349 (1997) 215

Liquid chromatography of peptides treated with fluorogenic reagents and its application to analyses of opioid peptides, their precursors and related enzymes in rat brain, 352 (1997) 103

The kinetics-based electrochemical determination of serum glutamate pyruvate transaminase activity with a gold microelectrode, 353 (1997) 319

Development of an oxidase-based glucose sensor using thicknessshear-mode quartz crystals, 363 (1998) 203

Electrophoretic methods for the isolation and characterization of enzymes, 383 (1999) 109

#### **EOF** traction

Combination of flow injection with capillary electrophoresis. Part 6.

A bias-free sample introduction system based on electroosmotic-flow traction, 398 (1999) 65

### **Eosine Bluish**

Development of a monitoring tape for ammonia gas in air by fluorescence detection, 302 (1995) 201

### **Ephedrine**

Amperometric determination of sympathomimetic drugs by flow injection analysis with a metallic copper electrode, 379 (1999) 81

### **Epileptic drugs**

Simultaneous homogeneous immunoassay of phenytoin and phenobarbital using a Nafion-loaded carbon paste electrode and two redox cationic labels, 356 (1997) 195

### **Epinephrine**

On-line coupling of isolation/in situ concentration integrated with derivative synchronous spectrofluorimetry for the simultaneous determination of epinephrine and norepinephrine in urine, 317 (1995) 335

Selective kinetic method based on detecting the intermediate product in successive reactions, 325 (1996) 105

Peroxidase-based spectrophotometric methods for the determination of ascorbic acid, norepinephrine, epinephrine, dopamine and levodopa, 357 (1997) 261

Fluorimetric determination of epinephrine with o-phenylenediamine, 363 (1998) 105

Amperometric determination of epinephrine with an osmium complex and Nafion double-layer membrane modified electrode, 378 (1999) 151

### **Epoxide hydrolase**

A colorimetric assay suitable for screening epoxide hydrolase activity, 391 (1999) 345

### **Epoxy matrix**

Enzyme immobilization on an epoxy matrix. Determination of \( \ell \)-arginine by flow-injection techniques, 308 (1995) 164

### **Epoxy resins**

Spectrophotometric determination of \( \ell \)-asparagine by flow-injection analysis using \( \ell \)-asparaginase immobilized on an epoxy resin, 308 (1995) 170

### **Epoxy-graphite composite**

Conductive epoxy-graphite composite as a solid internal reference in a NASICON-based sodium ion-selective electrode for flowinjection analysis, 308 (1995) 102

#### e-PTFE membrane

Amperometric detection with membrane-based sampling for percent-level determinations of ethanol, 332 (1996) 111

#### **Equation transfer**

Modelling near infrared instrument differences by chemometric methods: testing for near infrared forage analysis, 355 (1997) 181

### **Equilibration techniques**

Competitive equilibration techniques for determining transition metal speciation in natural waters: Evaluation using model data, 343 (1997) 161

### **Equilibrator**

Evaluation of a seawater equilibrator for shipboard analysis of dissolved oceanic trace gases, 395 (1999) 119

### Equilibria

Second order global analysis: the evaluation of series of spectrophotometric titrations for improved determination of equilibrium constants, 353 (1997) 381

### **Equilibria** in solution

Speciation of low molecular weight carboxylic ligands in natural fluids: protonation constants and association with major components of seawater of oxydiacetic and citric acids, 398 (1999) 103

### **Equilibrium** constant

Determination of complex formation constants for Cu(II)-Alizarin complexone with amines by capillary zone electrophoresis, 398 (1999) 75

# Equilibrium dialysis

Equilibrium dialysis-ligand exchange: adaptation of the method for determination of conditional stability constants of radionuclide-fulvic acid complexes, 303 (1995) 321

Europium binding by fulvic acids, 369 (1998) 171

### **Equilibrium parameters**

Study of the interaction of Al(III) with a soil fulvic acid in the acid pH range by self-modeling mixture analysis of synchronous fluorescence spectral data, 349 (1997) 23

# **Equilibrium simulation**

An equilibrium simulator for multiphase equilibria based on the extent of reaction and Newton-Raphson method with globally convergent strategy (SEQEx2), 334 (1996) 271

### **Equilibrium studies**

Potentiometric study of the equilibria between triethylenetetraminehexaacetic acid and H(I), Mn(II), La(III) and Ga(III) in aqueous solution, 367 (1998) 261

### **Equivalence** point

A computer program GEZ for determination of the equivalence point of the acid-base titration and E<sub>0</sub> of the glass electrode, 331 (1996) 23

#### Erbium

Cloud point extraction, preconcentration and spectrophotometric determination of erbium(III)-2-(3,5-dichloro-2-pyridylazo)-5dimethylaminophenol. 342 (1997) 229

### Eriochrome Cyanine R

Simultaneous determination of aluminium and beryllium at the subnanogram per millilitre level by solid-phase derivative spectrophotometry, 327 (1996) 73

# Error propagation

Reduction of error propagation due to normalization: effect of error propagation and closure on spurious correlations, 316 (1995) 205

#### Error sources

Quantitative electron paramagnetic resonance (EPR) spectrometry with a TE<sub>104</sub> double rectangular cavity Part 2. Analysis of sample and TE<sub>104</sub> cavity error sources associated with the movement of line-like samples into the TE<sub>104</sub> cavity, 333 (1996) 253

### Errors in both axis

Performance of the orthogonal least median squares regression, 348 (1997) 11

### Erythemal action function

In vitro measurement of sun protection factor of sunscreens by diffuse transmittance, 380 (1999) 155

### Erythrocyte enzymes

Blood group typing by electrophoresis based on isoelectric focusing, 383 (1999) 157

### Erythrocytes

Continuous fluorimetric assay for human aldehyde dehydrogenase and its application to blood analysis, 319 (1996) 209

Capillary zone electrophoresis with end-column amperometric detection for the determination of glutathione at a gold/mercury amalgam microelectrode without deoxygenation, 343 (1997) 231

### Erythropoietin

Determination of recombinant human erythropoietin by square wave voltammetry, 305 (1995) 340

### Erythrosin B

Determination of proteins by fluorescence quenching of erythrosin B, 333 (1996) 83

### ESC

Sensitivity control of ion-selective biosensors by electrophoretically mediated analyte transport, 391 (1999) 57

### Escherichia coli density

Highly sensitive electrochemical determination of Escherichia coli density using tyrosinase-based chemically amplified biosensor, 357 (1997) 51

# Escherichia coliform

A new method based on gelation of tachypleus amebocyte lysate for detection of *Escherichia coliform* using a series piezoelectric quartz crystal sensor, 374 (1998) 47

#### ESE-ELISA

Evaluation of analytical methods for determining pesticides in baby food, 399 (1999) 135

#### ESI

Assaying neurotransmitters in and around single neurons with information-rich detectors, 400 (1999) 13

#### **ESMS**

Determination of the quaternary ammonium ion components of Aliquat 336 by electrospray mass spectrometry, 360 (1998) 167

#### ESR

Radiosterilization dosimetry by electron-spin resonance spectroscopy: Cefotetan, 359 (1998) 107

Electron spin resonance identification of irradiated ascorbic acid: Dosimetry and influence of powder fineness, 372 (1998) 373

Application of electrochemical and spin trapping techniques in the investigation of hydroxyl radicals, 389 (1999) 213

### Essential oils

Sedative effect on humans of inhalation of essential oil of linalool: .

Sensory evaluation and physiological measurements using optically active linalools, 365 (1998) 293

### Estimated limit of detection

Spectroscopic factors optimization in electrothermal atomic absorption spectrometry via an optimal experimental design matrix, 350 (1997) 171

### Estimation

Supercritical fluid chromatographic method using phenyl packed column for determination of phenobarbitone and phenytoin sodium in dosage form, 384 (1999) 143

### Estradio

Chemiluminescence assay of alkaline phosphatase using cortisol-21-phosphate as substrate and its application to enzyme immunoassays, 337 (1997) 335

### Estradio

Comparison of chemiluminescent and chromogenic substrates of alkaline phosphatase in a direct immunoassay for plasma estradiol, 303 (1995) 143

### Estrogen

Development of an enzyme linked receptor assay (ELRA) for estrogens and xenoestrogens, 386 (1999) 191

### Estuarine samples

Determination of dimethoate and fenitrothion in estuarine samples by C-18 solid-phase extraction and high-resolution gas-chromatography with nitrogen-phosphorus detection, 335 (1996) 51

### **Estuarine** waters

Measurement of electrokinetic and size characteristics of estuarine colloids by dynamic light scattering spectroscopy, 331 (1996) 1

Determination of dissolved manganese(II) in coastal and estuarine waters by differential pulse cathodic stripping voltammetry, 344 (1997) 175

Sampling and probing volatile metal(loid) species in natural waters by in-situ purge and cryogenic trapping followed by gas chromatography and inductively coupled plasma mass spectrometry (P-CT-GC-ICP/MS), 377 (1998) 241

#### Estuary

Development of a simple extraction procedure using ligand competition for biogeochemically available metals of estuarine suspended particulate matter, 392 (1999) 3

Modeling bio-geochemical interactions in the surface waters of the Gulf of Trieste by three-way principal component analysis (PCA), 398 (1999) 227

#### ETAAS

Direct determination of cadmium in solid biological materials by slurry sampling electrothermal atomic absorption spectrometry with polytetrafluoroethylene as a chemical modifier, 391 (1999) 89

Rapid acid leaching and slurry sampling procedures for the determination of methyl-mercury and total mercury in human hair by electrothermal atomic absorption spectrometry, 398 (1999) 263

# ETH 5294

Optode for the specific determination of anionic surfactants, 361 (1998) 55

Ion-selective optode membranes using 9-(4-diethylamino-2-octadecanoatestyryl)-acridine acidochromic dye, 398 (1999) 1

# Ethambutol hydrochloride

Determination of benzhexol hydrochloride and ethambutol hydrochloride tablets by liquid chromatography, 314 (1995) 77

### Ethamivan

Electrochemical studies of ethamivan at glassy-carbon and platinum electrodes and its determination in urine by differential pulse voltammetry, 336 (1996) 85

### Ethanol

Self-driven coulometry of ethanol, d-glucose and d-fructose using ubiquinone-dependent dehydrogenase reactions, 306 (1995) 231

Vapour generation Fourier transform infrared spectrometry. A new analytical technique, 308 (1995) 28

Sequential enzymatic monitoring of glucose, ethanol and glutamate in bioreactor fermentation broth containing a high salt concentration by a multi-channel flow-injection analysis method, 308 (1995) 145

Membrane inlet ion mobility spectrometry for on-line measurement of ethanol in beer and in yeast fermentation, 309 (1995) 317 Electrocatalysis and amperometric detection of ethanol at ruthenium-based inorganic films with improved response stability, 310 (1995) 257

Biosensors for analysis of ethanol in food: effect of the pasting liquid, 319 (1996) 91

A disposable reagentless screen-printed amperometric biosensor for the measurement of alcohol in beverages, 329 (1996) 215

Amperometric detection with membrane-based sampling for percent-level determinations of ethanol, 332 (1996) 111

Reusable ethanol sensor based on a NAD\*-dependent dehydrogenase without coenzyme addition, 340 (1997) 143

Novel fluorescent sensor membranes for alcohols based on p-N,N-dioctylamino-4'-trifluoroacetylstilbene, 351 (1997) 189

On-line monitoring of a cultivation using an electronic nose, 361 (1998) 223

Diphenylurea hapten sensing with a monoclonal antibody and its Fab fragment: Kinetic and thermodynamic investigations, 362 (1998) 101

Novel instrumentation for determination of ethanol concentrations in human perspiration by gas chromatography and a good interrelationship between ethanol concentrations in sweat and blood, 365 (1998) 259

Introduction of alcohols in inductively coupled plasma mass spectrometry by a flow injection system, 379 (1999) 175

Simultaneous biosensing of ethanol and glucose with combined use of a rotating bioreactor and a stationary column reactor, 380 (1999) 1

### Ethanol and drink samples

Enzymatic determination of ethanol based on the intrinsic fluorescence of alcohol dehydrogenase, 343 (1997) 117

### **Ethanol determination**

Flow analysis with membrane separation and time based sampling for ethanol determination in beer and wine, 305 (1995) 241

Portable battery-powered flow injection analyser for volatile alcohols using semiconductor gas sensors, 321 (1996) 61

Direct vapor generation Fourier transform infrared spectrometric determination of ethanol in blood, 336 (1996) 123

### Ethanol sensor

Fluorescent ligands for optical sensing of alcohols: synthesis and characterisation of p-N,N-dialkylamino-trifluoroacetylstilbenes, 344 (1997) 215

Sensitized luminescence induced by nickel electrocatalysis to detect aliphatic hydroxy compounds, 362 (1998) 141

### Ethanol-water

Spectrophotometric study of the solubility and the protolytic properties of 1-(2-pyridylazo)-2-naphthol in different ethanol-water solutions, 360 (1998) 153

### Ethanol-water mixture

Protonation constants of some N-substituted thiophene-2-carboxamidoximes, 392 (1999) 343

### Ethanol-water solutions

Determination of the diffusion coefficient of 1-(2'-pyridylazo)-2naphthol in ethanol-water solutions using flow injection and nuclear magnetic resonance techniques, 386 (1999) 137

### Ethers and tioethers

Iminoketonate complexes of Cu(II) chemically bonded to silica in gas chromatography, 378 (1999) 101

### Ethidium bromide

Voltammetric determination of sequence-specific DNA by electroactive intercalator on graphite electrode, 335 (1996) 239

Intercalation-induced changes in DNA supercoiling observed in real-time by atomic force microscopy, 400 (1999) 27

### Ethinylestradiol

Simultaneous spectrophotometric determination of ethinylestradiol and levonorgestrel by partial least squares and principal component regression multivariate calibration, 340 (1997) 257

### Ethoxycarbonyl thiourea

Formation of a copper-butyl ethoxycarbonyl thiourea complex, 346 (1997) 237

### Ethyl butyrate

Fluoride determination by its inhibitory effect on immobilised liver esterase, 310 (1995) 173

### Ethyl substituted β-cyclodextrin

Determination of tetracyclines with a modified  $\beta$ -cyclodextrin based fluorosensor, 351 (1997) 205

#### Ethylation

Two methods for the speciation analysis of mercury in fish involving microwave-assisted digestion and gas chromatography-atomic emission spectrometry, 350 (1997) 273

### Ethylcadmium species

Inductively coupled plasma atomic emission spectrometric determination of cadmium in biological and environmental materials using electrothermal vaporization after in situ alkylation, 310 (1995) 369

### Ethylene glycol

Fluorometric determination of periodate with thiamine and its application to the determination of ethylene glycol and glycerol, 359 (1998) 87

Systematic approach to the identification of water-gel explosives, 375 (1998) 255

### Ethylenediamine

Electrochemical behavior and determination of gold at chemically modified carbon paste electrode by the ethylenediamine fixed humic acid preparation, 361 (1998) 133

New electrolyte system for the determination of ammonium, alkali and alkaline earth cations by capillary electrophoresis, 374 (1998) 159

# Ethylenediamine derivatives

Ion-pair extraction behavior of transition metal(II) cations as charged complexes with ethylenediamine derivatives having heterocyclic pendant arms, 339 (1997) 115

### Ethylenediaminetetraacetic acid

Sensitive spectrofluorimetric method for the determination of ethylenediaminetetraacetic acid and its salts in foods with zirconium ions and Alizarin Red S in a micellar medium, 329 (1996) 319 Metal ion interferences in reverse polarity capillary zone electrophoretic analysis of Hanford Defense Waste for ethylenediaminetetraacetic acid (EDTA) and n-hydroxyethylethylenediaminetriacetic acid (HEDTA), 396 (1999) 105

### Ethylenethiourea

Reactivities of amperometric organic phase peroxidase-modified electrodes in the presence and absence of thiourea and ethylenethiourea as inhibitors, 305 (1995) 57

### Ethylene-vinyl acetate

Acetylsalicylic acid determination in pharmaceutical samples by FIA-potentiometry using a salicylate-sensitive tubular electrode with an ethylene-vinyl acetate membrane, 366 (1998) 103

### Eu (europium)

Europium binding by fulvic acids, 369 (1998) 171

#### Eu(III)

A novel screening method for tetracycline in milk combining sensitized-Eu(III) fluorescence and immunoaffinity techniques, 375 (1998) 1

#### Europium

Study on strongly polarized water in AOT reversed micelles by fluorescence probes and analytical application of AOT reversed micelles, 312 (1995) 337

Time-resolved fluorescence studies of the interaction of the Eu<sup>3+</sup> complexes of tetracycline analogues with DNA, 345 (1997) 213

Studies on monoxide emission spectrometry of rare-earth elements.

IV. Simultaneous determination of Sm, Eu, Gd in Sm-Eu-Gd concentrates by the dual wavelength method, 350 (1997) 365

Determination of copper at ng ml<sup>-1</sup>-levels based on quenching of the europium chelate luminescence, 364 (1998) 125

Voltammetric investigation of the complexation equilibria in the presence of a low level of supporting electrolyte. Experiments with an inert complex, 377 (1998) 29

Interaction studies between europium and a surfactant cage "TAC8" by time-resolved laser-induced fluorescence, 378 (1999) 47

Europium complexes investigations in natural waters by timeresolved laser-induced fluorescence, 396 (1999) 253

### Europium (III) chelate

Investigation of fluorescence efficiency in the europium-thenoyltrifluoroacetone chelate in aqueous and ethanolic solutions by laser-induced fluorescence and photothermal spectroscopic methods, 317 (1995) 343

# Europium oxide

Determination of rare earth impurities in ultrapure europium oxide by inductively-coupled plasma mass spectrometry, 314 (1995) 193

# Europium(III)

Indirect bioluminescent determination of europium(III) using flow injection analysis and on-line reduction, 339 (1997) 225

# Evaluation method

Computational neural networks for the evaluation of biosensor FIA measurements, 348 (1997) 135

### **Evaluation of methods**

Evaluation of methods to minimize effects of liquid viscosity and density on the oscillating frequencies of thickness-shear-mode (TSM) piezoelectric resonators, 312 (1995) 217

# **Evaluation of toxic effects**

Inhibition behavior of acid phosphatase, phosphodiesterase I and adenosine deaminase as tools for trace metal analysis and speciation, 360 (1998) 101

### **Evaluation technique**

A new evaluation technique for FIA measurements: projective reference evaluation, 348 (1997) 161

### Evanescent-wave

Oxygen detection by fluorescence quenching of tetraphenylporphyrin immobilized in the original cladding of an optical fiber, 370 (1998) 1

### Event control

Application of a new automatic event-controlled sampler for heavy metals: studies on the behaviour of particle bound heavy metals in the Elbe estuary, 377 (1998) 263

#### **Evolutionary computing**

Genetic algorithms as a method for variable selection in multiple linear regression and partial least squares regression, with applications to pyrolysis mass spectrometry, 348 (1997) 71

### **Evolving factor analysis**

Simultaneous use of evolving factor analysis of fluorescence spectral data and analysis of pH titration data for comparison of the acid-base properties of fulvic acids, 318 (1996) 365

Classification of binding sites for Al(III) in fulvic acids extracted from leaf litters and soils by synchronous fluorescence spectroscopy and multidimensional chemometric analysis, 333 (1996) 71

Application of multivariate curve resolution to the voltammetric data Factor analysis ambiguities in the study of weak consecutive complexation of metal ion with ligand, 341 (1997) 105

Window target-testing factor analysis: theory and application to the chromatographic analysis of complex mixtures with multiwavelength fluorescence detection, 389 (1999) 95

### **Evolving least-squares fitting**

Metal complexation model identification and the detection and elimination of erroneous points using evolving least-squares fitting of voltammetric data, 363 (1998) 261

# **Evolving polynomial regression**

Evolving polynomial regression and error analysis in model identification and determination of consecutive stability constants using voltammetric methods, 325 (1996) 135

### **Evolving systems**

Quality of resolution of black multicomponent systems, 390 (1999)

## **Excitation fluorescence**

Resolution of phenol, o-cresol, m-cresol and p-cresol mixtures by excitation fluorescence using partial least-squares (PLS) multivariate calibration, 335 (1996) 23

## **Excited state proton transfer**

Dependence of the fluorescence of immobilized 1-hydroxypyrene-3,6,8-trisulfonate on solution pH: extension of the range of applicability of a pH fluorosensor, 304 (1995) 165

## Exhaustive electrolysis

Chemical oxygen demand sensor employing a thin layer electrochemical cell, 386 (1999) 211

Evaluation of chemical oxygen demand (COD) based on coulometric determination of electrochemical oxygen demand (EOD) using a surface oxidized copper electrode, 398 (1999) 161

#### Exocytosis

Visualized single cell dynamics and analysis of molecular tricks, 400 (1999) 33

### Experimental design

Design of experiments for the determination of the detection limit in chemical analysis, 306 (1995) 301

Ruggedness tests on the high-performance liquid chromatography assay of the United States Pharmacopeia XXII for tetracycline hydrochloride. A comparison of experimental designs and statistical interpretations, 312 (1995) 245

The application of Doehlert designs in the optimization of experimental variables in solid phase spectrophotometry, 316 (1995) 185

Chemometric methods for the development of a biosensor system and the evaluation of inhibition studies with solutions and mixtures of pesticides and heavy metals Part 1. Development of an enzyme electrodes system for pesticide and heavy metal screening using selected chemometric methods, 318 (1996) 275

Experimental design applied to a room-temperature phosphorimetric method for the determination of acenaphthene in a microemulsion, 318 (1996) 357

Investigation by experimental design and regression models of the effect of five experimental factors on ion-interaction high-performance liquid chromatographic retention, 321 (1996) 225

Multivariate evaluation of inhibition studies on an enzyme electrodes system with pesticides and mixtures of mercury and pesticides, 325 (1996) 1

Study of interferences in graphite furnace atomic absorption spectrometry by means of experimental design, 327 (1996) 47

Application of variable-angle synchronous phosphorimetry in a microemulsion medium for the simultaneous determination of three polyaromatic hydrocarbons, 329 (1996) 165

A computer program for searching the best model for describing different experimental systems, 340 (1997) 267

Effects of parameters on microwave assisted extraction of triazines from soil: evaluation of an optimisation trajectory, 348 (1997) 247

Application of factorial design to improve a FIA system for penicillin determination, 350 (1997) 353 Development of an optimized peptide map for recombinant activated human protein C by means of an experimental design strategy, 352 (1997) 221

Simultaneous microemulsion room temperature phosphorimetric determination of five polycyclic aromatic hydrocarbons by variable-angle synchronous scanning, 353 (1997) 337

Uniform design applied to nonlinear multivariate calibration by ANN, 370 (1998) 65

Multivariate experimental methodology for the evaluation of sample preparation techniques used in simultaneous multielemental analysis using total reflection X-ray fluorescence spectroscopy, 376 (1998) 145

A new multivariate approach for the optimisation of the simultaneous distillation-extraction technique for free fatty acids using a face centred cube experimental design: application to Parmigiano-Reggiano cheese, 386 (1999) 169

The SFSTP guide on the validation of chromatographic methods for drug bioanalysis: from the Washington Conference to the laboratory, 391 (1999) 135

Chemometrics: the issues of measurement and modelling, 400 (1999) 399

#### Expert systems

Analysis of plastic recycling products by expert systems, 312 (1995) 231

Self-configuration of sequential injection analytical systems, 316 (1995) 27

EXPIRS, an expert system for generation of alternative sets of substructures, derived by infrared spectra interpretation, 321 (1996) 105

X-PERT: a user-friendly expert system for molecular structure elucidation by spectral methods, 337 (1997) 265

Calibration method choice by comparison of model basis functions to the theoretical instrumental response function, 348 (1997) 1

Expert systems as a tool for the molecular structure elucidation by spectral methods. Strategies of solution to the problems, 348 (1997) 443

Automation of gas chromatography instruments. Part I. Automated peak identification in the chromatograms of standard test mixtures, 354 (1997) 65

Automation of gas chromatography instruments. Part II. A knowledge-based system for performance assessment, 354 (1997) 77

Advanced application of rule nets to the automation of chemical analysis systems, 354 (1997) 249

Spectroscopic determination of elemental composition of organic compounds with the aid of the X-PERT system, 388 (1999)

### **EXPIRS**

EXPIRS, an expert system for generation of alternative sets of substructures, derived by infrared spectra interpretation, 321 (1996) 105

### Exploratory data analysis (EDA)

Neural network learning to non-linear principal component analysis, 336 (1996) 209

Applications of maximum likelihood principal component analysis: incomplete data sets and calibration transfer, 350 (1997) 341

## **Explosives**

Analysis and characterisation of nitroglycerine-based explosives by gas chromatography-mass spectrometry, 307 (1995) 89

Investigation into variations in the isomer content within the nitroaromatic component in nitroglycerine-based explosives by gas chromatography with flame ionisation detection, 309 (1995) 189

In situ detection of trinitrotoluene and other nitrated explosives in soils, 341 (1997) 63

## **Exposure**

Immobilization of enzyme on screen-printed electrode by exposure to glutaraldehyde vapour for the construction of amperometric acetylcholinesterase electrodes, 382 (1999) 277

A new technique to measure bird's dietary exposure to pesticides, 399 (1999) 173

#### **External validation**

Modelling near infrared instrument differences by chemometric methods: testing for near infrared forage analysis, 355 (1997) 181

### Extracellular concentration

Application of reverse microdialysis in the evaluation of neural regulation of cardiovascular functions, 379 (1999) 275

#### Extracellular space

Slow ultrafiltration for continuous in vivo sampling: application for glucose and lactate in man, 379 (1999) 327

### Extractable metals selective chemical extraction

Use of flow-injection sample-to-standard addition methods for quantification of metals leached by selective chemical extraction from sewage sludge, 381 (1999) 297

### Extractants

Application of the Kamlet and Taft model in solvent extraction chemistry of metals, 374 (1998) 137

### Extraction

Sensitive determination of quaternary ammonium salts by extraction-spectrophotometry of ion associates with bromophenol blue anion and coextraction, 302 (1995) 75

Determination of molybdenum in various materials by normal-phase liquid chromatography using N-benzoyl-N-phenylhydroxylamine, 309 (1995) 157

Extraction with 8-quinolinol and mixed anionic additives using ultrasonic irradiation for the catalytic determination of vanadium in freshwaters, 310 (1995) 501

Monitoring of the ultrasonic irradiation effect on the extraction of airborne particulate matter by ion chromatography, 317 (1995) 171

Extraction of 4-(2-pyridylazo) resorcinol and 4-(2-thiazolylazo) resorcinol with chloroform and tetraphenylarsonium and phosphonium chlorides, 318 (1996) 345

On line coupling of a liquid-liquid extraction flow-reversal system to a spectrophotometric flow-through sensor for the determination of polyphenols in olive oil, 323 (1996) 55

Selective up-hill transport of gold to iodide stripping solution through a solvent modified liquid membrane containing a polysulphide podand as carrier, 327 (1996) 175

Solvent extraction of yttrium from chloride media by di(2-ethylhexyl)phosphoric acid in kerosene. Speciation studies and gel formation, 327 (1996) 267

Spectrophotometric determination of copper after extraction of its chelate with bis(acetylacetone)ethylenediimine, 329 (1996) 315

Extraction as a method for preparation of vegetable samples for the determination of trace metals by atomic absorption spectrometry, 330 (1996) 251

Flow injection extraction spectrophotometric determination of copper using bis(acetylacetone)ethylenediimine, 331 (1996) 253

A new method for extracting and purifying lead from difficult matrices for isotopic analysis, 332 (1996) 15

Separation of osmium from geological materials by solvent extraction for analysis by thermal ionisation mass spectrometry, 332 (1996) 269

The spectrophotometric determination of bismuth after extraction of protriptylinium tetraiodobismuthate(III), 334 (1996) 209

Determination of organomercury compounds in aqueous samples by capillary gas chromatography-atomic fluorescence spectrometry following solid-phase extraction, 334 (1996) 251

Sequential-injection extraction for sample preparation, 337 (1997)

Spectrophotometric determination of bismuth in pharmaceutical samples by extraction of the tetraiodobismuthate(III) anion into propylene carbonate, 337 (1997) 113

Determination of phenols in water by on-line solid-phase disk extraction and liquid chromotography with electrochemical detection, 340 (1997) 191

Monitoring the absorption of organic vapors to a solid phase extraction medium Applications to detection of trace volatile organic compounds by integration of solid phase absorbents with fiber optic Raman spectroscopy, 340 (1997) 227

Determination of physiological noble metals in human urine using liquid-liquid extraction and Zeeman electrothermal atomic absorption spectrometry, 340 (1997) 277

Detection of more than 50 substituted phenols as their t-butyldimethylsilyl derivatives using gas chromatography-mass spectrometry, 341 (1997) 21

Selective extraction of silver(I) over palladium(II) with ketonic derivatives of calixarenes from highly concentrated nitric acid, 341 (1997) 275

Temperature and pressure effects on the supercritical fluid extraction profiles of sulfonamides from a spiked matrix using CHF<sub>3</sub> and CO<sub>2</sub>, 341 (1997) 285

Determination of benzene derivatives in water by solid-phase microextraction, 343 (1997) 101

Determination of pentachlorophenol in certified waste waters, soil samples and industrial effluents using ELISA and liquid solid extraction followed by liquid chromatography, 346 (1997) 49

Supercritical fluid extraction of michellamines A and B from ancistrocladus korupensis leaves, 347 (1997) 305

Spectrophotometric determination of cobalt by extraction of benzyltributylammonium tetrathiocyanatocobaltate(II), 355 (1997) 163

- Analysis and storage of samples for chromium determination in seawater, 356 (1997) 35
- Spectrophotometric determination of perchlorate after extraction as protriptylinium perchlorate, 356 (1997) 141]
- Accelerated solvent extraction of lipids for determining the fatty acid composition of biological material, 358 (1998) 69
- Optimisation of the extraction of arsenic species from mussels with low power focused microwaves by applying a Doehlert design, 364 (1998) 19
- Simultaneous determination of cobalt(II) and Ni(II) in water and soil samples with sequential injection analysis, 366 (1998) 177
- Aqueous two-phase system of cationic and anionic surfactant mixture and its application to the extraction of porphyrins and metalloporphyrins, 369 (1998) 11
- Comparative spectrophotometric study of the complexation and extraction of tellurium with various halide ions and N,N'-di(acetoxyethyl)indocarbocyanine, 386 (1999) 161
- Aqueous two-phase extraction system of sodium perfluorooctanoate and dodecyltriethylammonium bromide mixture and its application to porphyrins and dyes, 390 (1999) 125
- Development of a simple extraction procedure using ligand competition for biogeochemically available metals of estuarine suspended particulate matter, 392 (1999) 3
- Determination of manganese in steel after extraction of dimethyldistearylammonium permanganate, 393 (1999) 223

#### **Extraction constant**

Solvent extraction of Pb(II) from acid medium with zinc hexamamethylenedithiocarbamate followed by back-extraction and subsequent determination by FAAS, 386 (1999) 281

## **Extraction efficiency**

Using a microdialysis shunt probe to monitor phenolphthalein glucuronide in rats with intact and diverted bile flow, 379 (1999) 359

## Extraction equilibrium

Extraction equilibrium of the ion-associate of periodate with amiloride hydrochloride and simultaneous spectrophotometric determination of periodate and iodate by liquid-liquid extraction, 356 (1997) 85

### **Extraction kinetics**

Acid-catalyzed interfacial complexation in the extraction kinetics of palladium(II) with 2-(5-bromo-2-pyridylazo)-5-diethylamino-phenol, 364 (1998) 53

## Extraction methods

Ultrasonication extraction and solid phase extraction clean-up for determination of US EPA 16 priority pollutant polycyclic aromatic hydrocarbons in soils by reversed-phase liquid chromatography with ultraviolet absorption detection, 364 (1998) 1

## **Extraction sequential**

Evaluation of the acetate buffer attack of a sequential extraction scheme for marine particulate metal speciation studies by scanning electron microscopy with energy dispersive X-ray analysis, 360 (1998) 27

## **Extraction techniques**

Comparison of different drying, extraction and detection techniques for the determination of priority polycyclic aromatic hydrocarbons in background contaminated soil samples, 383 (1999) 263

## **Extraction**, sequential

Scanning electron microscopy with energy-dispersive electron probe X-ray analysis investigation of a sequential extraction scheme for copper, chromium, iron and aluminium speciation in marine suspended particulate matter, 306 (1995) 149

## Extraction-coulometric method

Experimental evidence that hydroxyethylcarbamic acid is not a major product of the reaction between hydroxyethylamine and CO<sub>2</sub> in the presence of water, 356 (1997) 93

## Extractive pentafluorobenzylation

Extractive pentafluorobenzylation using a polymeric phase-transfer catalyst: a convenient one-step pretreatment for gas chromatographic analysis of anionic compounds, 356 (1997) 165

### Extractive photometric determination

Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165

# F

### FAAS

On-line preconcentration of lead and cadmium for flame atomic absorption spectrometry using a flow-through electrochemical microcell, 357 (1997) 133

## FABMS

- Formation of a copper-butyl ethoxycarbonyl thiourea complex, 346 (1997) 237
- Separation of a casein hydrolyzate by HPSEC with a new mobile phase and characterization of peptides by FABMS, 352 (1997) 300

## Fabry-Perot cavity

Quantitative millimetre wave spectroscopy. Part II: Determination of working conditions in an open Fabry-Perot cavity, 312 (1995) 115

## Fabry-Perot cavity spectrometer

- Quantitative millimetre wave spectrometry. Part I: design and implementation of a tracked millimetre wave confocal Fabry-Perot cavity spectrometer for gas analysis, 311 (1995) 99
- Quantitative millimetre wave spectroscopy. Part III: Theory of spectral detection and quantitative analysis in a millimetre wave confocal Fabry-Perot cavity spectrometer, 319 (1996) 277

## Facilitated coupled transport

Selective separation and concentration of vanadium(V) by a chemical pumping hollow-fiber supported liquid membrane, 349 (1997) 171

#### Factor analysis

Pollution of a river basin and its evolution with time studied by multivariate statistical analysis, 310 (1995) 15

Interactive rank annihilation: a graphic approach to quantification in grey multicomponent systems, 316 (1995) 225

Corrections for heteroscedasticity in window evolving factor analysis, 318 (1996) 125

Multivariate evaluation of inhibition studies on an enzyme electrodes system with pesticides and mixtures of mercury and pesticides, 325 (1996) 1

Simultaneous determination of dithiocarbamates by capillary electrophoresis with diode array detection and using factor analysis, 339 (1997) 123

Application of multivariate curve resolution to the voltammetric data Factor analysis ambiguities in the study of weak consecutive complexation of metal ion with ligand, 341 (1997) 105

Factor analysis of time domain NMR data: crystallinity of poly(tetrafluoroethene), 344 (1997) 261

Data analysis techniques for monitoring excited state kinetics, 348 (1997) 311

Factor analysis of simulated time domain NMR data for semicrystalline polymers, 356 (1997) 27

Application of principal component analysis for the characterisation of a piezoelectric sensors array, 367 (1998) 135

Multivariate curve resolution analysis of voltammetric data obtained at different time windows; study of the system Cd<sup>2+</sup>-nitrilotriacetic acid, 371 (1998) 23

Zinc-binding properties of the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: analysis by differential pulse polarography and multivariate curve resolution, 385 (1999) 353

Chromatographic behavior of ionizable compounds in liquid chromatography. Part 2. Standardization of potentiometric sensors and effect of pH and ionic strength on the retention of analytes using acetonitrile-water mobile phases, 389 (1999) 43

Complexation of cadmium by the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: study by differential pulse polarography and circular dichroism spectroscopy with multivariate curve resolution analysis, 390 (1999) 15

An environmental study by factor analysis of surface seawaters in the Gulf of Valencia (Western Mediterranean), 394 (1999) 109

## Factor analysis and detection limit

Treatment of responses below the detection limit: some current techniques compared by Factor Analysis on environmental data, 354 (1997) 255

### Factor rotation

A method for the determination of reaction mechanisms and rate constants from two-way spectroscopic data, 373 (1998) 83

## Factorial design

Application of the split-plot experimental design for the optimization of a catalytic procedure for the determination of Cr(VI), 369 (1998) 269

## Factorial design analysis

Enhancement of peroxyoxalate chemiluminescence by copper(II) in flow injection analysis; optimization by factorial design analysis, 320 (1996) 99

#### FAD

Kinetics and performance of a mediated biosensor for hypoxanthine using deflavo xanthine oxidase, 319 (1996) 325

Glucose detection at bare and sputtered platinum electrodes coated with polypyrrole and glucose oxidase, 335 (1996) 209

Electrochemical behavior of FAD at a gold electrode studied by electrochemical quartz crystal microbalance, 338 (1997)

Glucose oxidase electrodes via reconstitution of the apo-enzyme: tailoring of novel glucose biosensors, 385 (1999) 45

## False positives and negatives

An automated screening system for benzodiazepines in human urine, 366 (1998) 93

#### Far-UV

Measurement of dissolved total nitrogen in wastewater by UV photooxidation with peroxodisulphate, 389 (1999) 267

#### Fast calculation

Fast calculation of π-electron charge densities in organic molecules: Non-condensed compounds, 314 (1995) 101

### Fast electrothermal programs

Slurry sampling for the determination of lead, cadmium and thallium in soils and sediments by electrothermal atomic absorption spectrometry with fast-heating programs, 328 (1996) 19

### Fast Fourier transform

Fast Fourier transform admittance analysis method applied to thickness-shear-mode acoustic wave sensors, 353 (1997) 29

### Fast reaction

Very fast peroxyoxalate chemiluminescence, 400 (1999) 257

## Fast scan voltammetry

Surface and kinetic enhancement of selectivity and sensitivity in analysis with fast scan voltammetry at scan rates above 1000 V/ s, 349 (1997) 67

## Fast separation

Bioanalytical applications of fast capillary electrophoresis, 400 (1999) 163

## Fast-atom bombardment

Applicability of fast-atom bombardment mass spectrometry to the characterization of fulvic acid, 392 (1999) 319

### **Fat-soluble vitamins**

Determination of fat-soluble vitamins by capillary liquid chromatography in bovine blood plasma, 315 (1995) 177

### Fatty acid compositions

Characterization of fatty acids composition in vegetable oils by gas chromatography and chemometrics, 358 (1998) 163

### Fatty acid esters

Quantitative Fourier transform infrared spectroscopy of binary mixtures of fatty acid esters using partial least squares regression, 337 (1997) 191

## Fatty acids

4-N,N-Dimethylaminosulfonyl-7-N-(2-aminoethyl)aminobenzofurazan as a new precolumn fluorescence derivatization reagent for carboxylic acids (fatty acids and drugs containing a carboxyl moiety) in liquid chromatography, 344 (1997) 227

Accelerated solvent extraction of lipids for determining the fatty acid composition of biological material, 358 (1998) 69

A new multivariate approach for the optimisation of the simultaneous distillation-extraction technique for free fatty acids using a face centred cube experimental design: application to Parmigiano-Reggiano cheese, 386 (1999) 169

## Fatty acids and triacylglycerols

Characterization of fatty acids and triacylglycerols in vegetable oils by gas chromatography and statistical analysis, 398 (1999) 253

#### **Fault detection**

A new evaluation technique for FIA measurements: projective reference evaluation, 348 (1997) 161

## Fc receptor surfaces

Immunological activities of IgG antibody on pre-coated Fc receptor surfaces, 331 (1996) 97

### **FCdU**

Recovery as a function of the osmolality of the perfusion medium in microdialysis experiments, 375 (1998) 135

Recovery as a function of the osmolality of the perfusion medium in microdialysis experiments, 379 (1999) 319

### F-D4WM

Sensitive absorption detection for micro-column liquid chromatography by ultraviolet forward-scattering degenerate four-wave mixing, 390 (1999) 55

### Fo2

Titration of low levels of Fe<sup>2+</sup> with electrogenerated Ce<sup>4+</sup>, 392 (1999) 307

## Feature extraction

Variable selection in wavelet regression models, 368 (1998) 29

## Feature selection

Calibration line adjustment to facilitate the use of synthetic calibration samples in near-infrared spectrometric analysis of pharmaceutical production samples, 315 (1995) 257

Comparison of regularized discriminant analysis, linear discriminant analysis and quadratic discriminant analysis, applied to NIR data, 329 (1996) 257

Feature reduction by Fourier transform in pattern recognition of NIR data, 331 (1996) 75

Feature selection using the Kalman filter for classification of multivariate data, 335 (1996) 11

Variable selection in wavelet regression models, 368 (1998) 29

Qualitative and quantitative aspects of the application of genetic algorithm-based variable selection in polarography and stripping voltammetry, 378 (1999) 245

Selection of variables for interpreting multivariate gas sensor data, 381 (1999) 221

Automatic classification of infrared spectra using a set of improved expert-based features, 388 (1999) 145

## Feed additives

Enzyme immunoassay using peroxidase as a label and a dip-strip test for monitoring residual bacitracin in chicken plasma, 346 (1997) 207

## Feed analysis

Modelling near infrared instrument differences by chemometric methods: testing for near infrared forage analysis, 355 (1997) 181

## Feedback shift register

Feedback shift register sequences versus uniformly distributed random sequences for correlation chromatography, 324 (1996) 29

#### Femtosecond laser

Supersonic jet multiphoton ionization mass spectrometry using nanosecond and femtosecond pulse lasers, 343 (1997) 129

#### Fenitrothion

Determination of dimethoate and fenitrothion in estuarine samples by C-18 solid-phase extraction and high-resolution gas-chromatography with nitrogen-phosphorus detection, 335 (1996) 51

## Fermentation

Characterization and application of an on-line flow injection analysis/wall-jet electrode system for glucose monitoring during fermentation, 317 (1995) 223

Development of a mass-producible glucose biosensor and flowinjection analysis system suitable for on-line monitoring during fermentations, 321 (1996) 165

Pervaporation: An interface between fermentors and monitoring, 330 (1996) 265

Electrocatalytic oxidation of H<sub>2</sub>O<sub>2</sub> at an oxycobalt film modified glassy carbon electrode for fermentation monitoring, 351 (1997) 123

Amperometric biosensors for L-alanine and pyruvate assays in biological fluids, 355 (1997) 235

### Fermentation broth

Potentiometric biosensor for control of biotechnological production of penicillin G, 368 (1998) 205

## Fermentation processes

Evaluation of detection and sample clean-up techniques for on- and off-line fermentation monitoring systems, 324 (1996) 103

## Fermentation product analysis

Optimization of the ion-exchange analysis of organic acids from fermentation, 338 (1997) 69

#### Fermentor broths

Rapid and quantitative analysis of metabolites in fermentor broths using pyrolysis mass spectrometry with supervised learning: application to the screening of Penicillium chrysogenum fermentations for the overproduction of penicillins, 313 (1995) 25

#### Ferredoxins

Membrane-assembly of carbon microelectrodes for the electrochemical study of redox proteins, 353 (1997) 53

#### Ferritin

Characterization of dugong liver ferritin, 393 (1999) 235

#### Ferrocene

Electrochemical detection with microelectrodes in capillary flow systems, 305 (1995) 114

Thin film bienzyme amperometric biosensors based on polymeric redox mediators with electrostatic bipolar protecting layer, 311 (1995) 15

Purification and sensor applications of an oxygen insensitive, thermophilic diaphorase, 345 (1997) 17

Amperometric biosensor sensitive to glucose and lactose based on co-immobilization of ferrocene, glucose oxidase, β-galactosidase and mutarotase in β-cyclodextrin polymer, 358 (1998) 137

#### Ferrocene derivatives

Prediction of retention behavior of ferrocene derivatives in supercritical fluid chromatography, 349 (1997) 239

#### Ferrocenecarboxylic acid

Amperometric glucose biosensor manufactured by a printing technique, 304 (1995) 157

### Ferrocene:

Ferrocenyl silicon-based dendrimers as mediators in amperometric biosensors, 338 (1997) 191

### Ferrocenyl modified silicate

Sol-gel derived, ferrocenyl-modified silicate-graphite composite electrode: Wiring of glucose oxidase, 336 (1996) 95

## Ferroin dissociation

Dissociation of Ferroin in acidic solutions and Nafion <sup>R</sup> membranes, 395 (1999) 27

## Ferrous hydroxide

Separation of microgram quantities of Cr(III) and Cr(VI) in aqueous solutions and determination by energy dispersive X-ray fluorescence spectrometry, 315 (1995) 365

### Ferrozine

Indirect determination of ascorbic acid by solid-phase spectrophotometry, 360 (1998) 143

### Ferryl iron

Hemoglobin interference with an enzyme-linked immunosorbent assay for the detection of tumor necrosis factor-alpha, 313 (1995) 1

### Fertilizers

Determination of cadmium in fertilizers by flow-injection spectrophotometry, 308 (1995) 439 Determination of molybdenum in various materials by normal-phase liquid chromatography using N-benzoyl-N-phenylhydroxylamine, 309 (1995) 157

Sequential analyte removal in flow analysis: determination of nitrogen, phosphorus and potassium in fertilizers, 317 (1995) 239

Determination of the aqua regia soluble content of rare earth elements in fertilizer, animal fodder phosphate and manure samples using inductively coupled plasma mass spectrometry, 373 (1998) 95

The determination of cadmium and six other heavy metals in nitrate/ phosphate fertilizer solution by ion chromatography, 391 (1999) 35

Flow spectrophotometric determination of ammonium ion, 398 (1999) 311

#### Fetal hemoglobins

Isoelectric focusing of proteins and peptides in gel slabs and in capillaries, 372 (1998) 1

### a-fetoprotein

Comparative study of fluorescent ternary terbium complexes. Application in enzyme amplified fluorimetric immunoassay for  $\alpha$ -fetoprotein, 335 (1996) 177

Chemiluminescence assay of alkaline phosphatase using cortisol-21-phosphate as substrate and its application to enzyme immunoassays, 337 (1997) 335

#### α-1-Fetoprotein

A novel polymer-mimetic enzyme immunoassay system based on thermal phase separating technique, 375 (1998) 177

## FIA

Selective determination of sulfuric acid in liquors from acidic nickel ore extraction by flow injection analysis, 328 (1996) 61

Figures of merit in multivariate calibration. Determination of four pesticides in water by flow injection analysis and spectrophotometric detection, 348 (1997) 167

Application of factorial design to improve a FIA system for penicillin determination, 350 (1997) 353

Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165

Flow injection analysis of tannic acid with inhibited chemiluminescent detection, 362 (1998) 151

Use of column with modified silica for interfering retention in a FIA spectrophotometric method for direct determination of vitamin C in medicine, 366 (1998) 11

Acetylsalicylic acid determination in pharmaceutical samples by FIA-potentiometry using a salicylate-sensitive tubular electrode with an ethylene-vinyl acetate membrane, 366 (1998) 103

Determination of V(V) by a kinetic stopped-flow FIA method with spectrophotometric detection, 366 (1998) 287

Microwave-assisted saponification of animal greases for cholesterol determination, 371 (1998) 297

Simultaneous determination of nitrite and nitrate in various samples using flow injection with spectrophotometric detection, 382 (1999) 15

Flow-injection analysis of Kjeldahl nitrogen in milk and dairy products by potentiometric detection, 385 (1999) 437

Determination of sulfur dioxide in wines by gas-diffusion flow injection analysis utilizing modified electrodes with electrostatically assembled films of tetraruthenated porphyrin, 387 (1999) 175

Separation and preconcentration of fluoride at the ng ml<sup>-1</sup> level with a polymer complex of zirconium(IV) followed by potentiometric determination in a flow system, 388 (1999) 201

Use of a peroxidase reactor in flow injection analysis for the determination of chloramine and the inhibition kinetics, 390 (1999) 141

### FIA assembly

Usefulness of a ruggedness test in the validation of flow injection analysis systems, 355 (1997) 195

### Fiber optic

Multi-analyte explosive detection using a fiber optic biosensor, 399 (1999) 13

Demonstration of a separations-based fiberoptic sensor for bioanalysis, 399 (1999) 201

### Fiber optic fluorescence

Fibre-optic genosensor for specific determination of femtomolar DNA oligomers, 350 (1997) 51

## Fiber-optic ammonia gas sensors

General model for the steady-state response properties of fiber-optic ammonia gas sensors, 317 (1995) 265

### Fiber-optic chemical sensors

Fiber-optic pH sensor based on Poly(o-methoxyaniline), 353 (1997) 275

## Fiber-optic sensor

Continuous in-vivo monitoring of metronidazole in cerebrospinal fluid by a on-line flow-cell fiber-optic chemical sensor system, 331 (1996) 103

Selectivity comparison of neutral carrier-based ion-selective optical and potentiometric sensing schemes, 350 (1997) 329

A transient enzymatic inhibition as an efficient tool for the discriminating bioluminescent analysis of three adenylic nucleotides with a fiberoptic sensor based on a compartmentalized trienzymatic sensing layer, 360 (1998) 89

Oxygen detection by fluorescence quenching of tetraphenylporphyrin immobilized in the original cladding of an optical fiber, 370 (1998) 1

A fiber-optic pH sensor prepared using a base-catalyzed organosilica sol-gel, 376 (1998) 235

Luminol electrochemiluminescence-based fibre optic biosensors for flow injection analysis of glucose and lactate in natural samples, 381 (1999) 1

## Fiber-optic UV measurements

Determination of multicomponent dissolution profiles of pharmaceutical products by in situ fiber-optic UV measurements, 345 (1997) 155

### Fibers

Simultaneous monitoring of pH, CO<sub>2</sub> and O<sub>2</sub> using an optical imaging fiber, 340 (1997) 123

#### Fibonacci method

A flow-batch titrator exploiting a one-dimensional optimisation algorithm for end point search, 396 (1999) 91

## Fibre optic biosensor

Fibre optic biosensor for the determination of p-glucose based on absorption changes of immobilized glucose oxidase, 319 (1996) 103

#### Fibre optical probe

Quantitation of the active compound and major excipients in a pharmaceutical formulation by near infrared diffuse reflectance spectroscopy with fibre optical probe, 333 (1996) 147

### Fibre optics

Monitoring the absorption of organic vapors to a solid phase extraction medium Applications to detection of trace volatile organic compounds by integration of solid phase absorbents with fiber optic Raman spectroscopy, 340 (1997) 227

Flow-through fiber-optic ammonia sensor for analysis of hippocampus slice perfusates, 357 (1997) 79

#### Fibrinogen

Light scattering-based determination of fibrinogen in human plasma using an automated continuous system, 327 (1996) 101

Effect of surface activation on charge and mass transfer rates of the hexacyanoferrate(III)/(II) redox probe at fibrinogen-modified carbon paste electrodes, 340 (1997) 99

### Field flow fractionation

Optimisation of on-channel preconcentration in flow field-flow fractionation for the determination of size distributions of low molecular weight colloidal material in natural waters, 357 (1997) 187

## Field monitoring

Remote electrochemical biosensor for field monitoring of phenolic compounds, 312 (1995) 39

## Field screening

A strategy to validate immunoassay test kits for TNT and PAHs as a field screening method for contaminated sites in Germany, 376 (1998) 3

### Field test

Stabilization of enzyme immunoassays for atrazine, 362 (1998) 35

### Field-flow fractionation

Development of sedimentation field-flow fractionation-inductively coupled plasma mass-spectrometry for the characterization of environmental colloids, 381 (1999) 315

## Field-portable

Field-portable capillary electrophoresis instrument with potentiometric and amperometric detection, 393 (1999) 77

## Field-portable sensor

Disposable liposome immunosensor for theophylline combining an immunochromatographic membrane and a thick-film electrode, 380 (1999) 17

## FI-ETAAS

Selective flow-injection quantification of ultra-trace amounts of Cr(VI) via on-line complexation and preconcentration with APDC followed by determination by electrothermal atomic absorption spectrometry, 366 (1998) 163

## Figures of merit

Figures of merit in multivariate calibration. Determination of four pesticides in water by flow injection analysis and spectrophotometric detection, 348 (1997) 167

## FIIA

Development of a highly sensitive enzyme-linked immunosorbent assay for atrazine Performance evaluation by flow injection immunossay, 347 (1997) 149

#### FI-ICP-MS

A micro-scale mercury cathode electrolysis procedure for on-line flow injection inductively coupled plasma mass spectrometry trace elements analysis in steel samples, 389 (1999) 247

#### FLLC

Simultaneous determination of trace amounts of nickel, copper and mercury by liquid chromatography coupled with flow-injection on-line derivatization and preconcentration, 369 (1998) 215

### Film-coated blister-packed tablets

A near-infrared reflectance analysis method for the noninvasive identification of film-coated and non-film-coated, blister-packed tablets, 310 (1995) 43

## Filter

A fuzzy filter for removing interferences among membership grade functions An application to pre-treatment of data in olive oil authentication, 312 (1995) 281

Step by step filter - an approach for noise reduction in the derivative UV-visible spectra, 324 (1996) 77

### Filter paper

Infrared study of the interactions of moisture with filter paper and the moisture quenching of solid-matrix room temperature phosphorescence, 324 (1996) 61

## Filter radiometry

Characterisation of optical detectors using high-accuracy instruments, 380 (1999) 327

## Filterable reactive phosphorus

Procedures for the storage and digestion of natural waters for the determination of filterable reactive phosphorus, total filterable phosphorus and total phosphorus, 375 (1998) 5

## Filtration

Determination of total phosphorus in waters and wastewaters by online UV/thermal induced digestion and flow injection analysis, 326 (1996) 29

Sample collection and preparation for analysis of airborne particulate matter by total reflection X-ray fluorescence spectrometry, 346 (1997) 121

### **Fingerprinting**

On-line pyrolysis of hydrocarbons coupled to high-precision carbon isotope ratio analysis, 397 (1999) 217

## Finite differences theory

Fast calculation of  $\pi$ -electron charge densities in organic molecules: Non-condensed compounds, 314 (1995) 101

#### Firefly luciferase

Interaction of long-chain choline derivatives with firefly luciferase and their use as reagents for the extraction of intracellular ATP from microorganisms, 303 (1995) 85

A transient enzymatic inhibition as an efficient tool for the discriminating bioluminescent analysis of three adenylic nucleotides with a fiberoptic sensor based on a compartmentalized tri-enzymatic sensing layer, 360 (1998) 89

Bioluminescent enzyme immunoassay using thermostable mutant luciferase and acetate kinase as a labelled enzyme, 361 (1998)

Bioluminescent enzyme immunoassay for pituitary adenylate cyclase activating polypeptide 38 (PACAP38), 382 (1999) 245

Simultaneous assay of pepsinogen I and pepsinogen II in serum by bioluminescent enzyme immunoassay using two kinds of *Luciola lateralis* luciferase, 395 (1999) 265

#### First metabolite

Serum stability of phosphopeptides, 352 (1997) 319

### Fisetin

Liquid chromatographic determination of triphenyltin and tributyltin using fluorimetric detection, 314 (1995) 175

### Fish

Determination of trace metals (Cd, Pb) in fish by electrothermal atomic absorption spectrometry after microwave digestion, 311 (1995) 135

Determination of nitrobenzenes in river water, sediment and fish samples by gas chromatography-mass spectrometry, 312 (1995) 45

Determination of formaldehyde in frozen fish with formaldehyde dehydrogenase using a flow injection system with an incorporated gel-filtration chromatography column, 320 (1996) 155

Liquid chromatographic determination of methylamines. Determination of trimethylamine in fish samples using a porous graphitic carbon stationary phase, 322 (1996) 63

Two methods for the speciation analysis of mercury in fish involving microwave-assisted digestion and gas chromatography-atomic emission spectrometry, 350 (1997) 273

### Fish extrac

Determination of trimethylamine in fish by flow injection analysis, 321 (1996) 69

## Fish freshness

Silk fibroin/cellulose acetate membrane electrodes incorporating xanthine oxidase for the determination of fish freshness, 369 (1998) 245

## Fish samples

- Gas chromatography-mass spectrometry determination of triclosans in water, sediment and fish samples via methylation with diazomethane, 325 (1996) 175
- Chemiluminescence measurement of tertiary amines using the continuous-addition-of-reagent technique. Determination of trimethylamine in fish samples, 356 (1997) 51
- Determination of Cu, Zn, Cd and Pb in fish samples by slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry, 359 (1998) 205

### Fish sperm DNA

- Spectrophotometry of nucleic acids by their effect on the complex of cobalt(II) with 4-[(5-chloro-2-pyridyl)azo]-1,3-diaminobenzene, 345 (1997) 235
- Determination of nucleic acids at nanogram levels with safranine T by a resonance light-scattering technique, 375 (1998) 89

### Fission products

Determination of fission products and actinides by inductively coupled plasma-mass spectrometry using isotope dilution analysis: a study of random and systematic errors, 312 (1995) 57

### Fitting

A computer program for searching the best model for describing different experimental systems, 340 (1997) 267

## Flame atomic absorption spectrometry

- Precipitation flow-injection method for the determination of saccharin in mixtures of sweeteners, 308 (1995) 275
- Preconcentration and speciation of chromium by the determination of total chromium and chromium(III) in natural waters by flame atomic absorption spectrometry with a chelating ion-exchange flow injection system, 327 (1996) 37
- Flow injection on-line coprecipitation-preconcentration system using copper(II) diethyldithiocarbamate as carrier for flame atomic absorption spectrometric determination of cadmium, lead and nickel in environmental samples, 353 (1997) 181
- On-line sorption preconcentration of chromium(VI) and its determination by flame atomic absorption spectrometry, 354 (1997) 151
- Sequential injection system in flame atomic absorption spectrometry for the determination of calcium and magnesium in mineral waters, 358 (1998) 111
- Speeding up of a three-stage sequential extraction method for metal speciation using focused ultrasound, 360 (1998) 35
- Calibration procedure for flow injection flame atomic absorption spectrometry with interferents as spectrochemical buffers, 367 (1998) 101
- Solvent impregnated hollow fibre for a selective preconcentration of Pb(II) in an on-line determination by flame atomic absorption spectrometry, 370 (1998) 141
- Coupling of flow injection wetting-film extraction without segmentation and phase separation to flame atomic absorption spectrometry for the determination of trace copper in water samples, 370 (1998) 151
- Rapid determination of chemical oxygen demand by a semi-automated method based on microwave sample digestion, chro-

- mium(VI) organic solvent extraction and flame atomic absorption spectrometry, 372 (1998) 399
- Application of microwave extraction for partitioning of heavy metals in sewage sludge, 378 (1999) 201

## Flame photometric detection

- Gas chromatographic determination of aldehydes in combustion smoke samples, 358 (1998) 269
- Flow injection system with flame photometric detection for the measurement of the dimethylsulphide precursor β-dimethylsulphoniopropionate, 377 (1998) 95

## Flare material

Study on spectral characterization of infrared flare material combustion with remote high resolution Fourier transform infrared spectrometry, 306 (1995) 249

### Flash pyrolysis

Pyrolysis electron impact mass spectrometry in studying aquatic humic substances, 350 (1997) 241

#### Flavanols

Determination of flavanols in beers with tissue biosensors, 347 (1997) 281

### Flavianate

Potentiometric membrane sensors for the selective determination of cinnarizine in pharmaceutical preparations, 321 (1996) 47

## Flavine adenine dinucleotide

- Glucose detection at bare and sputtered platinum electrodes coated with polypyrrole and glucose oxidase, 335 (1996) 209
- Glucose oxidase electrodes via reconstitution of the apo-enzyme: tailoring of novel glucose biosensors, 385 (1999) 45

## Flavocoenzymes

Thermospray and electrospray mass spectrometry of flavocoenzymes. Analysis of riboflavin sulphates from sugar beet, 302 (1995) 215

## Flavonoid-mercury complexes

Determination of naringin in grapefruit juice by cathodic stripping differential pulse voltammetry at the hanging mercury drop electrode, 360 (1998) 179

## Flavonoids

- Determination of flavonoids and alkaloids in the scute-coptis herb couple by capillary electrophoresis, 313 (1995) 113
- Preconcentration at a carbon-paste electrode and determination by adsorptive-stripping voltammetry of rutin and other flavonoids, 320 (1996) 255
- Determination of naringin in grapefruit juice by cathodic stripping differential pulse voltammetry at the hanging mercury drop electrode, 360 (1998) 179

## Flavour compounds

Simultaneous micro steam distillation/solvent extraction for the isolation of semivolatile flavor compounds from cinnamon and their separation by series coupled-column gas chromatography, 302 (1995) 147

### Floctafenic acid

Application of computerized compensation method to derivative synchronous spectrofluorimetry. Analysis of floctafenine and floctafenic acid in plasma, 351 (1997) 211

#### Floctafenine

Application of computerized compensation method to derivative synchronous spectrofluorimetry. Analysis of floctafenine and floctafenic acid in plasma, 351 (1997) 211

#### Flourescence sensors

Fiber optic pH/Ca<sup>2+</sup> fluorescence microsensor based on spectral processing of sensing signals, 397 (1999) 93

### Flow amperometric detection

A PVC-graphite composite electrode for electroanalytical use. Preparation and some applications, 355 (1997) 23

#### Flow analysis

- On-line coated columns for the spectrophotometric determination of metals by continuous flow analysis, 308 (1995) 378
- Differential flow-injection potentiometry with double sensitivity using one ion-selective membrane, 313 (1995) 83
- Standard additions in flow injection analysis based on merging zones and gradient exploitation: application to copper determination in spirits, 319 (1996) 153
- On-line multicomponent determination of organic compounds in water following gel permeation chromatographic separation, 319 (1996) 165
- A new approach for compensating concentration gradients in flow analysis, 331 (1996) 17
- Multicommutation in flow analysis. Part 4. Computer-assisted splitting for spectrophotometric determination of copper and zinc in plants, 332 (1996) 173
- Vapour generation-Fourier transform infrared spectrometric determination of benzene, toluene and methyl tert.-butyl ether in gasolines, 333 (1996) 157
- Multicommutation in flow analysis. Part 5: Binary sampling for sequential spectrophotometric determination of ammonium and phosphate in plant digests, 334 (1996) 287
- Buffer composition suitable for determining very low fluoride concentrations using a fluoride ion-selective electrode and its application to the continuous analysis of rain water, 338 (1997) 141
- Flow analysis with accuracy assessment, 350 (1997) 31
- Continuous-flow determination system based on null-point potentiometry using a nitrate ion-selective membrane, 355 (1997) 211
- Microwave-assisted vapour-generation Fourier transform infrared spectrometric determination of carbonate in waters, 358 (1998) 235
- On-line solvent recycling: a tool for the development of clean analytical chemistry in flow injection Fourier transform infrared spectrometry. Determination of ketoprofen, 361 (1998) 253
- Microwave-assisted sample decomposition in flow analysis, 366 (1998) 63

- Flow-injection spectrophotometric catalytic determination of manganese in plants exploiting the aerial oxidation of diphenyl carbazone, 366 (1998) 87
- Multicommutation in flow analysis. Part 6. Binary sampling for wide concentration range turbidimetric determination of sulphate in plant digests, 366 (1998) 251
- Time-division multiplex technique for producing concentration profiles in flow analysis, 368 (1998) 105
- Multicommutation in flow analysis exploiting a multizone trapping approach: spectrophotometric determination of boron in plants, 374 (1998) 53
- Flow-injection/standard subtraction method for the determination of iron(III) based on its catalytic effect and inhibition of EDTA, 374 (1998) 303
- In-line deoxygenation for flow analysis with voltammetric detection, 377 (1998) 229
- Integrated conductimetric detection: mass distribution in a dynamic sample zone inside a flow injection manifold, 379 (1999) 99
- Monosegmented flow system exploiting multicommutation applied to spectrophotometric determination of manganese in soybean digests, 386 (1999) 129
- Simultaneous and automatic determination of hydroxide and carbonate in aluminate solutions by a micro-titration method, 388 (1999) 219
- Environmentally friendly analytical chemistry through automation: comparative study of strategies for carbaryl determination with p-aminophenol, 392 (1999) 265
- A flow-batch titrator exploiting a one-dimensional optimisation algorithm for end point search, 396 (1999) 91
- Flow spectrophotometric determination of ammonium ion, 398 (1999) 311
- Evolution of the commutation concept associated with the development of flow analysis, 400 (1999) 249

### Flow cell

A liquid drop: A windowless optical cell and a reactor without walls for flow injection analysis, 326 (1996) 13

## Flow injection

- Rapid determinations of complexing stability constants by gradient flow-injection titration, 302 (1995) 97
- Simultaneous spectrophotometric determination of nitrite and nitrate in a flow-injection system, 302 (1995) 283
- Development of enzyme cartridge flow-injection analysis for industrial process monitoring. Part II. Application for monitoring of microorganism cultivations, 302 (1995) 289
- Evaluation of lophine derivatives as chemiluminogens by a flowinjection method, 303 (1995) 103
- Chemiluminometric enzyme sensors for flow-injection analysis, 303 (1995) 109
- Evaluation of a predictive steady-state flow-injection method adapted to an open flow tube with a tracer, 303 (1995) 199
- Determination of trace aluminum in natural waters by flow-injection analysis with fluorescent detection of the lumogallion complex, 303 (1995) 211
- Air-segmented flow injection: a hybrid technique for automated, low dispersion determinations, 303 (1995) 231

- Determination of trace metals in natural waters by flame atomic absorption spectrometry following on-line ion-exchange preconcentration, 303 (1995) 341
- Highly selective biosensing of lactate at lactate oxidase containing rhodium-dispersed carbon paste electrodes, 304 (1995) 41
- Flow-injection spectrophotometric determination of copper using bis(cyclohexanone) oxalyldihydrazone, 304 (1995) 97
- Generalized standard addition in flow-injection analysis with UVvisible photodiode array detection, 304 (1995) 229
- Membrane extraction-preconcentration cell coupled on-line to flowinjection and liquid chromatographic systems. Determination of triazines in oils, 304 (1995) 323
- Immunosensing with amperometric detection, using galactosidase as label and p-aminophenyl-β-α-galactopyranoside as substrate, 304 (1995) 353
- A flow-injection type chemiluminescence-based sensor for cyanide, 304 (1995) 369
- Enzymatic sensor coupled to a flow-injection analysis system for the determination of salicylate, 305 (1995) 26
- Electrocatalytic and flow-injection determination of the antioxidant tert.-butylhydroxyanisole at a nickel phthalocyanine polymer modified electrode, 305 (1995) 49
- Electrochemical detection with microelectrodes in capillary flow systems, 305 (1995) 114
- Flow analysis with membrane separation and time based sampling for ethanol determination in beer and wine, 305 (1995) 241
- Determination of the antioxidant Irganox 1076 by anodic voltammetry and flow injection with pulsed amperometric detection at a glassy carbon electrode, 305 (1995) 324
- Development of a computer controlled multichannel potentiostat for applications with flowing solution analysis, 305 (1995) 347
- The simultaneous speciation of aluminium and iron in a flowinjection system, 306 (1995) 5
- Predictive model for coulometric operation in a thin-layer amperometric flow cell, 306 (1995) 115
- A mechanized system for the determination of low levels of quickly reacting aluminium in natural waters, 306 (1995) 173
- Determination of cadmium in foodstuffs and plant materials by flow injection-spectrophotometry including ion exchange, 306 (1995) 343
- Determination of vanadium(IV) and vanadium(V) by formation of a transient mixed valence complex in a flow-injection manifold, 307 (1995) 1
- Flow-injection analysis: leaving its teen-years and maturing. A personal reminiscence of its conception and early development, 308 (1995) 3
- Flow injection-renewable surface techniques, 308 (1995) 14
- Application of photoacoustic spectrometry to flow-injection analysis, 308 (1995) 20
- Vapour generation Fourier transform infrared spectrometry. A new analytical technique, 308 (1995) 28
- Mathematical modelling of flow-injection systems, 308 (1995) 36 Automatic implementation of the method of standard additions in

unsegmented flow systems, 308 (1995) 77

Use of submicroliter-volume samples for extending the dynamic range of flow-injection flame atomic absorption spectrometry, 308 (1995) 85

- Flow-injection anodic stripping voltammetry at a gold electrode for selenium(IV) determination, 308 (1995) 96
- Conductive epoxy-graphite composite as a solid internal reference in a NASICON-based sodium ion-selective electrode for flowinjection analysis, 308 (1995) 102
- Construction and use of a tubular picrate ion-selective electrode for reducing sugar determination in Port wine by flow-injection analysis, 308 (1995) 122
- Flow-injection analysis of phenols at a graphite electrode modified with co-immobilised laccase and tyrosinase, 308 (1995) 137
- Fluorimetric-flow injection determination of theophylline based on its inhibitory effect on immobilized alkaline phosphatase, 308 (1995) 159
- Enzyme immobilization on an epoxy matrix. Determination of \( \lambda\)-arginine by flow-injection techniques, 308 (1995) 164
- Spectrophotometric determination of /-asparagine by flow-injection analysis using /-asparaginase immobilized on an epoxy resin, 308 (1995) 170
- Spectrofluorimetric flow-injection determination of potassium in serum based on enzyme activation, 308 (1995) 178
- Methods for on-line monitoring to be implemented in an ammonium thiosulphate production plant, 308 (1995) 187
- Efficiency and response studies on gas diffusion manifolds in flowinjection systems, 308 (1995) 206
- Preconcentration of an analyte dialysate in a flow-injection system, 308 (1995) 214
- Study of mass transfer in on-line analytical parallel-plate dialysers in series in flow injection systems, 308 (1995) 222
- Preconcentration and flow-injection multivariate determination of priority pollutant chlorophenols, 308 (1995) 238
- Dynamic analysis of the binding process of bovine serum albumin on glutaraldehyde-activated controlled pore glass, 308 (1995) 261
- Precipitation flow-injection method for the determination of saccharin in mixtures of sweeteners, 308 (1995) 275
- Electroosmotically pumped capillary format sequential injection analysis with a membrane sampling interface for gaseous analytes, 308 (1995) 281
- Sequential flow-injection spectrofluorimetric determination of coumarins using a double-injection single-line system, 308 (1995) 293
- Flow-injection chemiluminometric determination of ascorbic acid based on its sensitized photooxidation, 308 (1995) 299
- Simultaneous flow injection determination of nitrate and nitrite in water by gas-phase chemiluminescence, 308 (1995) 308
- Determination of metal ion mixtures using pH gradient flowinjection analysis with fluorescence detection, 308 (1995) 313
- Spectrofluorimetric determination of berberine in oriental pharmaceutical preparations by flow-injection analysis coupled with liquid-liquid extraction, 308 (1995) 329
- Spectrofluorimetric flow injection determination of adrenaline with an iodine solid-phase reactor, 308 (1995) 334
- Time-based device used for the determination of tin by hydride generation flow injection atomic absorption techniques, 308 (1995) 339

Determination of iron and zinc in adipose tissue by on-line microwave-assisted mineralization and flow-injection graphite furnace atomic absorption spectrometry, 308 (1995) 349

Rapid determination of mercury in environmental materials using on-line microwave digestion and atomic fluorescence spectrometry, 308 (1995) 364

Microwave-assisted robotic method for the determination of trace metals in soil, 308 (1995) 371

Continuous flow analysis: simultaneous spectrophotometric determinations of metals, 308 (1995) 386

Photo-induced reduction of nitrate to nitrite and its application to the sensitive determination of nitrate in natural waters, 308 (1995) 406

Iron(II) and iron(III) determination in sea water at the nanomolar level with selective on-line preconcentration and spectrophotometric determination, 308 (1995) 425

Flow-injection spectrophotometric determination of trace iron in various salts. Elimination of blank peak effect and use of 2-(5-nitro-2-pyridylazo)-5-(N-propyl-N-sulfopropylamino)phenol as chromogenic agent, 308 (1995) 433

Determination of cadmium in fertilizers by flow-injection spectrophotometry, 308 (1995) 439

Routine assay of creatinine in newborn baby urine by spectrophotometric flow-injection analysis, 308 (1995) 446

Continuous-flow spectrophotometric determination of sulfadiazine by diazotisation with in situ preparation of nitrite, 308 (1995) 451

Flow-injection spectrophotometric determination of carbimazole and methimazole, 308 (1995) 457

Clean analytical method for the determination of propoxur, 308 (1995) 462

Development of a novel chemiluminescent probe, 4-(5',6'dimethoxybenzothiazolyl) phthalhydrazide, 309 (1995) 211

Evidence of axial diffusion accompanied by axial dispersion with zone circulating flow-injection analysis data, 309 (1995) 227

Selective flow-injection determination of methanol using immobilized enzyme reactors, 309 (1995) 241

Shipboard flow injection determination of sea water pH with spectrophotometric detection, 309 (1995) 259

Flow-injection stopped-flow spectrofluorimetric kinetic determination of total ascorbic acid based on an enzyme-linked coupled reaction, 309 (1995) 271

Evaluation of acoustic emission as a means for carbonate determination, 309 (1995) 283

Oscillating flow injection stripping potentiometry, 309 (1995) 293 Immunobased elution assay for process control, 309 (1995) 301

Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for the determination of zinc by flame atomic absorption spectrometry, 309 (1995) 395

Evaluation of multicomponent flow-injection analysis data by use of a partial least squares calibration method, 310 (1995) 53

Batch square-wave voltammetric and flow-injection amperometric determination of trace amounts of bromofenoxim, 310 (1995) 153

Flow injection amperometric determination of glucose and some other low molecular weight saccharides based on oligosaccharide dehydrogenase mediated by benzoquinone systems, 310 (1995) 161 Fluoride determination by its inhibitory effect on immobilised liver esterase, 310 (1995) 173

Electrocatalysis and amperometric detection of ethanol at ruthenium-based inorganic films with improved response stability, 310 (1995) 257

An integrated design strategy for flow-injection analysis based on the coupling of mathematical modelling and optimization algorithms. 310 (1995) 289

Effect of chemical diffusivity on the peak shapes in flow injection analysis with sample or reagent injection, 310 (1995) 329

Spectrophotometric determination of total phenolics by solvent extraction and sorbent extraction optosensing using flow injection methodology, 310 (1995) 437

Multicommutation in flow analysis. Part 3. Spectrophotometric kinetic determination of creatinine in urine exploiting a novel zone sampling approach, 310 (1995) 447

Determination of branched-chain ℓ-amino acids by flow-injection analysis with co-immobilized leucine dehydrogenase/NADH oxidase and chemiluminescence detection, 311 (1995) 71

Evaluation of flow injection methods for ammonium determination in wastewater samples, 311 (1995) 165

Differential flow injection potentiometry, 311 (1995) 175

The automation of immun-FIA-systems, 313 (1995) 55

Determination of trace cyanide in 3-guanidinopropionic acid by stripping preconcentration/isolation followed by flow-injection analysis with amperometric detection at silver, 313 (1995) 75

Development of a micro flow injection manifold for the determination of orthophosphate, 313 (1995) 155

On-line fault detection of flow-injection analysis systems based on recursive parameter estimation, 313 (1995) 161

Graphite-poly(tetrafluoroethylene) electrodes as electrochemical detectors in flowing systems, 314 (1995) 13

On-line flow injection monitoring of ammonia in industrial liquid effluents, 314 (1995) 33

Quantitative analysis of sulfadiazine using photochemically induced fluorescence detection in bulk solution and in a flow injection system, 314 (1995) 45

Determination of uranium in tin tailings using 4-(2-pyridylazo) resorcinol by flow-injection analysis, 314 (1995) 51

Solid phase preconcentration-Fourier transform infrared spectrometric determination of carbaryl and 1-naphthol, 314 (1995)

Effect of solvent properties on the dispersion coefficient in an online microwave flow-injection system, 314 (1995) 213

Advances in amperometric enzyme electrodes in reversed micelles, 315 (1995) 93

Development of an extremely flexible automatic analyzer with integrated biosensors for on-line control of fermentation processes, 315 (1995) 113

Determination of phosphorus in turbid waters using alkaline potassium peroxodisulphate digestion, 315 (1995) 123

Direct and simultaneous determination of uric acid and glucose in serum with electrochemical filter/biosensor flow-injection analysis system, 315 (1995) 137

Development of enzyme-cartridge flow-injection analysis for industrial process monitoring. Part III. Application for monitoring of recombinant animal cell cultivations, 315 (1995) 153

- On-line ion-exchange separation and determination of niobium, tantalum, tungsten, zirconium and hafnium in high-purity iron by flow injection inductively coupled plasma mass spectrometry, 315 (1995) 331
- Flow-injection chemiluminescence determination of ultra low concentrations of nitrite in water, 316 (1995) 261
- On-line monitoring with feedback control of bioreactors using a high ethanol tolerance yeast by membrane introduction mass spectrometry, 316 (1995) 269
- Use of immobilized 3-phytase and flow injection for the determination of phosphorus species in natural waters, 316 (1995) 277
- Analysis of ammonia and methylamines in natural waters by flow injection gas diffusion coupled to ion chromatography, 316 (1995) 291
- Flow-injection column preconcentration directly coupled with electrothermal atomization atomic absorption spectrometry for the determination of aluminium. Comparison of column packing materials, 316 (1995) 313
- Development of a chemiluminescence detector with photodiode detection for flow-injection analysis and its application to \( \ell \)-lactate analysis. 316 (1995) 323
- Flame atomic absorption spectrometric determination of cobalt in biological materials using a flow-injection system with on-line preconcentration by ion-pair adsorption, 316 (1995) 329
- Application of ion-exchanger phase visible light absorption to flow analysis. Determination of vanadium in natural water and rock, 317 (1995) 207
- Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for nickel, cobalt and manganese determination by atomic absorption spectrometry, 317 (1995) 215
- Characterization and application of an on-line flow injection analysis/wall-jet electrode system for glucose monitoring during fermentation, 317 (1995) 223
- Chemiluminescent determination of tryptophan in a flow injection system, 317 (1995) 233
- On-line and off-line monitoring of the production of alkaline serine protease by Bacillus licheniformis, 317 (1995) 247
- Development of biosensors based on an electrolyte isolator semiconductor (EIS)-capacitor structure and their application for process monitoring Part I. Development of the biosensors and their characterization, 317 (1995) 259
- Flow injection sandwich technique applied to indirect visible spectrophotometric determinations. Bromimetric and iodimetric determination of sulphite, 318 (1995) 55
- Micelle enhanced spectrofluorimetric assay for laccase activity by a flow-injection stopped-flow technique, 318 (1995) 63
- Direct determination of ultratraces of thallium in water by flowinjection-differential-pulse anodic stripping voltammetry, 318 (1996) 159
- An automated flow-reversal injection/liquid-liquid extraction approach to the direct determination of total free fatty acids in olive oils, 318 (1996) 187
- Flow-injection analysis and liquid chromatography: surfaceenhanced Raman spectrometry detection by using a windowless flow cell, 318 (1996) 203
- Determination of codeine in process streams using flow-injection analysis with chemiluminescence detection, 318 (1996) 309

- A bienzyme modified carbon paste electrode for the amperometric detection of L-lactate at low potentials, 319 (1996) 79
- Oxidative detection of nitrite at an electrocatalytic [Ru(bipy)<sub>2</sub>poly-(4-vinylpyridine)<sub>10</sub>Cl]Cl electrochemical sensor applied for the flow injection determination of nitrate using a Cu/Cd reductor column, 319 (1996) 111
- Determination of uranium by flow injection inductively coupled plasma mass spectrometry, 319 (1996) 135
- Poly(amphiphilic pyrrole)-tyrosinase-peroxidase electrode for amplified flow injection-amperometric detection of phenol, 319 (1996) 145
- Detection of flow injection analysis with pH gradient by acoustooptic tunable filter based spectrophotometry, 319 (1996) 315
- Trace measurements of nucleic acids using flow injection amperometry, 319 (1996) 347
- Evaluation of a flow injection system combined with an inductively coupled plasma mass spectrometer with thermospray nebulization for the determination of trace levels of platinum, 320 (1996)
- Enhancement of peroxyoxalate chemiluminescence by copper(II) in flow injection analysis; optimization by factorial design analysis, 320 (1996) 99
- Determination of formaldehyde in frozen fish with formaldehyde dehydrogenase using a flow injection system with an incorporated gel-filtration chromatography column, 320 (1996) 155
- Multicomponent flow injection based analysis with diode array detection and partial least squares multivariate calibration evaluation. Rapid determination of Ca(II) and Mg(II) in waters and dialysis liquids, 320 (1996) 177
- Determination of trace elements in human serum by inductively coupled plasma atomic emission spectrometry with flow injection, 320 (1996) 185
- Portable battery-powered flow injection analyser for volatile alcohols using semiconductor gas sensors, 321 (1996) 61
- Determination of trimethylamine in fish by flow injection analysis, 321 (1996) 69
- Determination of triazines in surface waters by membrane separation coupled on-line to a flow-injection system and partial least squares regression, 321 (1996) 147
- Simultaneous quantitation of citrate and isocitrate in citrus juice by a flow-injection method based on the use of enzyme reactors, 321 (1996) 157
- Development of a mass-producible glucose biosensor and flowinjection analysis system suitable for on-line monitoring during fermentations, 321 (1996) 165
- A combined sampling and delay unit for flow injection analysis. The automated determination of 2-thiobarbituric acid reactive substances in foods, 322 (1996) 69
- Determination of the concentration of higher alcohols with enzyme coupled flow-injection analysis in model systems, 322 (1996)
- Anodic stripping voltammetry of trace metals by batch injection analysis, 322 (1996) 151
- Determination of total phenols in waters and wastewaters using flow injection with electrochemical detection; an alternative to the standard colorimetric procedure, 323 (1996) 39

- Flow injection spectrophotometric determination of ng ml<sup>-1</sup> levels of cobalt(II) using the photochemical decomposition of a cadmium(II)-water-soluble porphyrin complex. 323 (1996) 63
- Flow-injection analysis with chemiluminescent detection of sulphite using Na<sub>2</sub>CO<sub>3</sub>-NaHCO<sub>3</sub>-Cu<sup>2+</sup> system, 323 (1996) 69
- Polypyrrole-based amperometric flow injection biosensor for urea, 323 (1996) 107
- Automated injection of slurry samples in flow-injection analysis, 324 (1996) 13
- Flow injection analysis of paraoxon with the use of an immobilized acetylcholinesterase reactor, 324 (1996) 21
- Automated determination of lactulose in milk using an enzyme reactor and flow analysis with integrated dialysis, 324 (1996) 37
- Voltammetry with programmed baseline compensation, 324 (1996) 135
- Selective flow injection procedures for the determination of nitrogen containing analytes by gasdialytic-fluorimetric detection of enzymatically generated ammonia, 325 (1996) 93
- Photochemical derivatization and spectrophotometric determination of thioridazine by flow injection, 326 (1996) 23
- Determination of total phosphorus in waters and wastewaters by online UV/thermal induced digestion and flow injection analysis, 326 (1996) 29
- A new flow injection single-standard calibration method for flame atomic absorption spectrometry based on dilution by microsample dispersion, 326 (1996) 49
- Preconcentration and speciation of chromium by the determination of total chromium and chromium(III) in natural waters by flame atomic absorption spectrometry with a chelating ion-exchange flow injection system, 327 (1996) 37
- Light scattering-based determination of fibrinogen in human plasma using an automated continuous system, 327 (1996) 101
- Automated analytical biosystem for urea monitoring, 327 (1996) 243
- Flow injection analysis with amperometric detection of cocaine in confiscated samples, 328 (1996) 67
- A novel biosensor system for cyanide based on a chemiluminescence reaction, 329 (1996) 111
- Highly sensitive chemiluminescence flow injection analysis system using microbial peroxidase and a photodiode detector, 329 (1996) 127
- Flow injection analysis as a tool for studying polymer modified electrodes, 329 (1996) 181
- Flow injection spectrophotometric determination of paracetamol in pharmaceuticals by means of on-line microwave-assisted hydrolysis and reaction with 8-hydroxyquinoline (8-quinolinol), 330 (1996) 59
- Determination of copper in natural waters by batch and oscillating flow injection stripping potentiometry, 330 (1996) 79
- Electrocatalysis and amperometric detection of aliphatic aldehydes at platinum-palladium alloy coated glassy carbon electrode, 330 (1996) 151
- Determination of inorganic anions in water samples by ionexchange chromatography with chemiluminescence detection based on the neutralization reaction of nitric acid and potassium hydroxide, 331 (1996) 239

- A flow-injection continuous filtration approach for the automatic determination of monoclonal antibodies, 331 (1996) 245
- On-line monitoring of trace amounts of copper(II) in steam condensate and boiler feed-water by flow injection analysis based on its catalytic effect on the oxidation of hydroquinone by hydrogen peroxide, 331 (1996) 257
- Determination of highly concentrated Na, K, Mg and Ca in dialysis solution with flow injection on-line dilution and flame atomic absorption spectrometry, 331 (1996) 263
- Approaches to in-line removal of dissolved oxygen in flow systems for process analysis, 332 (1996) 31
- Determination of ranitidine in pharmaceutical preparations using manual and flow injection potentiometry and spectrophotometry, 332 (1996) 39
- Flow injection determination of metrifonate by immobilised acetylcholinesterase inhibition, 332 (1996) 179
- Potentiometric detection of carboxylic acids by flow injection analysis using a tungsten oxide electrode, 332 (1996) 187
- Flow-injection stopped-flow spectrofluorimetric kinetic determination of paracetamol based on its oxidation reaction by hexacyanoferrate(III), 333 (1996) 59
- A robotic-flow injection approach to the fully automated determination of starch in food, 333 (1996) 205
- Photocured polymers in ion-selective electrode membranes. Part 5: Photopolymerised sodium sensitive ion-selective electrodes for flow injection potentiometry, 334 (1996) 133
- Determination of arsenic by hydride generation gas diffusion flow injection analysis with electrochemical detection, 334 (1996) 193
- Determination of trimethylamine oxide in seawater and small volumes of seafood tissue extract using flow injection analysis, 334 (1996) 279
- Flow injection method for determination of uranium in urine and serum by inductively coupled plasma mass spectrometry, 334 (1996) 295
- Second order multivariate curve resolution applied to the flow injection analysis of mixtures of amino acids, 335 (1996) 41
- Photocured polymers in ion-selective electrode membranes Part 6: Photopolymerized lithium sensitive ion-selective electrodes for flow injection potentiometry, 335 (1996) 111
- Silica sol-gel immobilized amperometric biosensor for hydrogen peroxide, 335 (1996) 137
- Electrochemical response of a polypyrrole-dodecylsulphate electrode with multicharged cations and vitamins B<sub>1</sub> and B<sub>6</sub>. Application as a microsensor in flow-injection analysis, 336 (1996)
- Direct vapor generation Fourier transform infrared spectrometric determination of ethanol in blood, 336 (1996) 123
- Study of equilibria in cyanide systems by gas-diffusion measurement of hydrogen cyanide, 336 (1996) 131
- Enzyme immunoassay with amperometric flow-injection analysis using horseradish peroxidase as a label. Application to the determination of polychlorinated biphenyls, 336 (1996) 167
- Determination of sucrose using sucrose phosphorylase in a flowinjection system, 337 (1997) 107
- New interface for coupling flow-injection and capillary electrophoresis, 337 (1997) 117

- Determination of sulphite in wines by gas-diffusion flow injection analysis utilizing spectrophotometric pH-detection, 337 (1997) 125
- Enhancing the performance of membrane introduction mass spectrometry by organic carrier and liquid chromatographic separation, 337 (1997) 165
- Paraquat sensors containing membrane components of high lipophilicities, 338 (1997) 89
- Flow injection amperometric and chemiluminescence individual and simultaneous determination of lysine and glucose with immobilized lysine oxidase and glucose oxidase, 338 (1997)
- Determination of volatile arsenicals in ambient air by flow injection, 338 (1997) 215
- Chemiluminescence detection of porphyrins with the peroxyoxalate reaction by flow-injection analysis, 339 (1997) 131
- Chemiluminescent flow injection determination of alkaline phosphatase and its applications to enzyme immunoassays, 339 (1997) 139
- Detection of amino acids at conducting electroactive polymer modified electrodes using flow injection analysis. Part I. Use of macroelectrodes, 339 (1997) 201
- Detection of amino acids at conducting electroactive polymer modified electrodes using flow injection analysis. Part II. Use of microelectrodes, 339 (1997) 211
- Indirect bioluminescent determination of europium(III) using flow injection analysis and on-line reduction, 339 (1997) 225
- Simultaneous flow injection analysis of cadmium and lead with differential pulse voltammetric detection, 340 (1997) 149
- Comparative study of some synthesised and commercial fluorogenic substrates for horseradish peroxidase and its mimetic enzyme hemin by a flow injection method, 340 (1997) 159
- Flow injection analysis of copper diethyldithiocarbamate in high resistance toluene media using a microelectrode detector, 340 (1997) 169
- Development of an amperometric immunosensor based on flow injection analysis for the detection of red blood cells, 340 (1997) 175
- Pulsed-amperometric detection of urea in blood samples on a conducting polypyrrole-urease biosensor, 341 (1997) 155
- Determination of chlorine dioxide using 4-aminoantipyrine and phenol by flow injection analysis, 341 (1997) 257
- Flow injection determination of Al<sup>3+</sup> and Al<sub>13</sub>O<sub>4</sub>(OH)<sub>24</sub>(H<sub>2</sub>O)<sup>7+</sup><sub>12</sub> species using a 1.3-s reaction with 8-quinolinol-derivatised Fractogel, 343 (1997) 19
- Flow injection determination of anionic surfactants based on the solvatochromism of p-diphenylaminoazobenzene sulfonate, 343 (1997) 33
- Calibration methods for determination of ammonium and excess acid in Kjeldahl digests by flow injection analysis, 343 (1997) 183
- Flow injection-assisted optical sensor for determination of iron(II) and iron(III) in natural water, 343 (1997) 191
- Selective determination of protolytes by flow injection analysis. A guide for the rational selection of reagent composition, 344 (1997) 271

- The aluminium(III)-4-nitrocatechol system: potentiometry, voltammetry and application to the determination of reactive Al(III), 345 (1997) 5
- Flow methods for the determination of polycyclic aromatic hydrocarbons using low power photomultiplier tube and charge coupled device chemiluminescence detection. 346 (1997) 113
- Combination of flow injection with capillary electrophoresis. Part I.
  The basic system, 346 (1997) 135
- Dispersion behaviour of solid particles in flow-injection analysis, 346 (1997) 351
- Amperometric detection of phenols using peroxidase-modified graphite electrodes, 347 (1997) 51
- Quality compromises incorporated in simplex optimisation of a flow injection system, 348 (1997) 129
- Use of pH gradients in continuous-flow systems and multivariate regression techniques applied to the determination of methionine and cysteine in pharmaceuticals, 348 (1997) 151
- Speciation determination of aluminium (Al<sup>3\*</sup>) by flow injection amperometry via the 1,2-dihydroxyanthraquinone-3-sulfonic acid complex, 349 (1997) 111
- Coupling of membrane-immobilized enzyme reaction and heteropoly acid-luminol chemiluminescence reaction for the determination of adenosine-5'-triphosphate, 349 (1997) 159
- Fast automated determination of toxicologically relevant arsenic in urine by flow injection-hydride generation atomic absorption spectrometry, 349 (1997) 313
- Simultaneous amperometric and potentiometric detection of inorganic anions in flow systems using platinum and silver/silver chloride electrodes, 350 (1997) 1
- Lithium determination in artificial serum using flow injection systems with a selective solid-state tubular electrode based on NASICON membranes, 350 (1997) 7
- Determination of manganese in natural water and effluent streams using a solid-phase lead(IV) dioxide reactor in a flow-injection system, 350 (1997) 15
- Non-linearity with metal-metal ligand complex reactions in flow injection systems. Metal-thiocyanate reactions, 350 (1997) 37
- A flow-injection (FI) mediated biosensor for on-line monitoring of lactate in mammalian cell culture, 351 (1997) 159
- Elimination of the Schlieren effect in the determination of reactive phosphorus in estuarine waters by flow-injection analysis, 351 (1997) 265
- Total nitrogen determination by flow injection using on-line microwave-assisted digestion, 351 (1997) 273
- Flow injection spectrophotometric determination of total carbonyls in hydrocarbons by reaction with vanillin, 351 (1997) 281
- Automated flow injection spectrophotometric non-aqueous titrimetric determination of the free fatty acid content of olive oil, 351 (1997) 291
- Behaviour of matrix cations (Ca<sup>2+</sup>, K<sup>+</sup>, Mg<sup>2+</sup> and Na<sup>+</sup>) during online preconcentration and atomic spectrometric detection of trace metals in natural waters, 351 (1997) 311
- Combination of flow injection with capillary electrophoresis. Part 2.
  Chiral separation of intermediate enantiomers in chloramphenical synthesis, 353 (1997) 199

- Evaluation of the dialysing yield of membranes with different composition. Application to the analysis of chloride in fruit juices by flow injection, 353 (1997) 245
- Flow immunoassay using a cation exchange column and fluorescence-labelled antibody for detection of allergen, 354 (1997) 29
- Simultaneous flow injection determination of iron(II) and iron(III) with opto-electrochemical detection, 354 (1997) 43
- Influence of different volume ratios on the isodispersion point in sequential injection analysis, 354 (1997) 59
- A fluorescence flow injection method for the quantitation of cyanide: its application to the quantitation of bound cyanide in cassava using an immobilized linamarase bioreactor, 354 (1997)
- Highly sensitive flow-injection determination of glucose in plasma using an immobilized pyranose oxidase and a chemiluminometric peroxidase sensor, 354 (1997) 205
- The influence of metabolites on enzyme based flow injection analysis, 355 (1997) 55
- Combination of flow injection with capillary electrophoresis. Part 3.

  On-line sorption column preconcentration capillary electrophoresis system, 355 (1997) 135
- Turbidimetric flow-injection determination of total nitrogen and potassium in vegetables, 356 (1997) 259
- Direct chemiluminescence determination of ascorbic acid using flow injection analysis, 356 (1997) 289
- Determination of cyanide as tetracyanonickelate(II) by flow injection and spectrophotometric detection, 357 (1997) 103
- Flow injection chemiluminescence determination of hydrazine, 358 (1998) 121
- Simultaneous biosensing of inosine monophosphate and glutamate by use of immobilized enzyme reactors, 358 (1998) 127
- Flow-injection chemiluminometric determination of some phenothiazines in dosage forms and biological fluids, 358 (1998) 255
- Evaluation of the adsorptive immobilisation of horseradish peroxidase on PTFE tubing in flow systems for hydrogen peroxide determination using fluorescence detection, 359 (1998) 149
- Kinetic and thermodynamic considerations in the determination of aluminium using pyrocatechol violet: implications for the use of 'kinetic-based' determinations of metal ions in natural systems, 359 (1998) 329
- A submersible flow injection-based sensor for the determination of total oxidised nitrogen in coastal waters, 361 (1998) 63
- Determination of sub-nanomolar levels of iron in seawater using flow injection with chemiluminescence detection, 361 (1998) 189
- Non-aqueous flow-injection determination of atrazine by inhibition of immobilized tyrosinase, 362 (1998) 187
- Direct determination of phosphate in soil extracts by potentiometric flow injection using a cobalt wire electrode, 363 (1998) 191
- Flow injection conductimetric or spectrophotometric analysis for acidity in fruit juice, 363 (1998) 199
- Determination of chloride by flow injection spectrophotometry with membrane reagent introduction, 366 (1998) 147
- On-line preconcentration system for lanthanum determination in urine using FI-ICP-AES, 366 (1998) 201
- Flow-injection biamperometric determination of nitrate (by photoreduction) and nitrite with the NO<sub>2</sub>/I<sup>-</sup> reaction, 366 (1998) 241

- Automated flow-injection system for extending the linear range, 366 (1998) 271
- Determination of ammonia in wastewaters containing high concentrations of surfactants by flow injection potentiometry with online sample clean-up, 367 (1998) 193
- Time-division multiplex technique for producing concentration profiles in flow analysis, 368 (1998) 105
- Flow injection chemiluminescence determination of pyrogallol, 368 (1998) 113
- On-line separation and preconcentration of cadmium, lead and nickel in a fullerene (C<sub>60</sub>) minicolumn coupled to flow injection tungsten coil atomic absorption spectrometry, 368 (1998) 255
- A time-based flow injection-cold vapor-atomic absorption spectrometry system with on-line microwave sample pre-treatment for the determination of inorganic and total mercury in urine, 369 (1998) 57
- Determination of sulphide in effluent streams using a solid-phase lead(II) chromate reactor incorporated into a flow-injection system, 369 (1998) 157
- Coupling of flow injection wetting-film extraction without segmentation and phase separation to flame atomic absorption spectrometry for the determination of trace copper in water samples, 370 (1998) 151
- Chemiluminescence from fluorescent organic compounds induced by cobalt(II) catalyzed decomposition of peroxomonosulfate, 371 (1998) 163
- Flow injection chemiluminescent determination of trace amounts of hydrogen peroxide in snow-water using KIO<sub>4</sub>-K<sub>2</sub>CO<sub>3</sub> system, 371 (1998) 171
- Flow injection determination of neostigmine and galanthamine by immobilised acetylcholinesterase inhibition, 372 (1998) 379
- Flow injection chemiluminescence determination of catecholamines with electrogenerated hypochlorite, 374 (1998) 105
- Polyethyleneimine-coated reticulated vitreous carbon electrode with immobilized enzymes as a substrate detector, 374 (1998) 185
- Chemiluminometric branched chain amino acids determination with immobilized enzymes by flow-injection analysis, 375 (1998)
- Combination of flow injection with capillary electrophoresis. Part 4.

  Automated multicomponent monitoring of drug dissolution, 376
  (1998) 209
- Simultaneous determination of traces of iron(II) and iron(III) using differential pulse anodic stripping voltammetry in a flow-through configuration on a glassy carbon electrode, 376 (1998) 325
- In situ determination of silicic acid in sea water based on FIA and colorimetric dual-wavelength measurements., 377 (1998) 157
- Determination of cadmium in seawater using automated on-line preconcentration and direct injection graphite furnace atomic absorption spectrometry, 377 (1998) 255
- Continuous, pulsed and stopped flow in a µ-flow injection system (numerical vs experimental), 378 (1999) 111
- Determination of nano-molar levels of formaldehyde in drinking water using flow-injection system with immobilized formaldehyde dehydrogenase after off-line solid-phase extraction, 378 (1999) 169
- Standard addition method in FIA. Comparison between different assemblies, 379 (1999) 89

- Sequential determination of total and volatile acidity in wines based on a flow injection-pervaporation approach, 381 (1999) 23
- Use of flow-injection sample-to-standard addition methods for quantification of metals leached by selective chemical extraction from sewage sludge, 381 (1999) 297
- Towards the most rational use of robotics within the overall analytical process, 384 (1999) 117
- Determination of the pesticide Naptalam, at the ppb level, by FIA with fluorimetric detection and on-line preconcentration by solid-phase extraction on C<sub>18</sub> modified silica, 384 (1999) 185
- Amperometric flow-through biosensor for the determination of cholinesterase inhibitors, 385 (1999) 13
- Determination of the diffusion coefficient of 1-(2'-pyridylazo)-2naphthol in ethanol-water solutions using flow injection and nuclear magnetic resonance techniques, 386 (1999) 137
- Flow injection determination of chlorpromazine by inhibition of glutamate dehydrogenase, 387 (1999) 47
- Flow injection chemiluminescence determination of ornithine and sequential determination of ornithine and lysine by using immobilized lysine oxidase, 388 (1999) 339
- On-line determination of cyanide in the presence of sulfide by flow injection with pervaporation, 390 (1999) 133
- The automatic visualisation of carry-over in high-throughput flow injection analysis mass spectrometry, 390 (1999) 175
- Chemiluminescence of sulfite based on auto-oxidation sensitized by rhodamine 6G, 391 (1999) 95
- 1,10-Phenanthroline as a complexing agent for on-line sorbent extraction/preconcentration for flow injection-flame atomic absorption spectrometry, 392 (1999) 283
- Combination of flow injection with capillary electrophoresis. Part 5. Automated preconcentration and determination of pseudoephedrine in human plasma, 394 (1999) 13
- Study of various indicating redox systems on the indirect flowinjection biamperometric determination of pharmaceuticals, 396 (1999) 161
- Combination of flow injection with capillary electrophoresis. Part 6. A bias-free sample introduction system based on electroosmotic-flow traction, 398 (1999) 65
- Novel application and comparison of multivariate calibration for the simultaneous determination of Cu, Zn and Mn at trace levels using flow injection diode array spectrophotometry, 398 (1999) 93
- Determination of glucose and fructose in mixtures by a kinetic method with chemiluminescence detection, 398 (1999) 191
- Development of an electrochemical flow injection immunoassay (FIIA) for the real-time monitoring of biospecific interactions, 400 (1999) 109
- Trends of flow injection sample pretreatment approaching the new millennium, 400 (1999) 233

## Flow injection (FI) enzymatic

L-Cysteine determination using a polyphenol oxidase-based inhibition flow injection procedure, 399 (1999) 287

## Flow injection analysis

Thiophilic gels: applications in flow-injection immunoassays for macromolecules and haptens, 303 (1995) 223

- Synergetic catalytic effect of molybdate and tungstate on the hydrogen peroxide-iodide system and its analytical applications, 303 (1995) 241
- Sequential enzymatic monitoring of glucose, ethanol and glutamate in bioreactor fermentation broth containing a high salt concentration by a multi-channel flow-injection analysis method, 308 (1995) 145
- Characterization and reduction of interferences in flow-injection analysis for the in situ determination of nitrate and nitrite in sea water, 308 (1995) 413
- A liquid drop: A windowless optical cell and a reactor without walls for flow injection analysis, 326 (1996) 13
- The determination of vanadium(V) in the presence of vanadium(IV) using 4-(2-pyridylazo)resorcinol in a flow-injection manifold, 329 (1996) 275
- Amperometric flow injection determination of fructose in honey with a carbon paste sensor based on fructose dehydrogenase, 330 (1996) 71
- Complex formation of 2-(5-nitro-2-pyridylazo)-5-(N-propyl-N-sulfo-propylamino)phenol with lead, cadmium and manganese for their sensitive spectrophotometric detection in flow injection and ion chromatography systems, 345 (1997) 139
- Simultaneous determination of iron(II) and iron(III) by flow injection analysis A mathematical simulation of the detector response, 348 (1997) 101
- Computational neural networks for the evaluation of biosensor FIA measurements, 348 (1997) 135
- A new evaluation technique for FIA measurements: projective reference evaluation, 348 (1997) 161
- A novel gas-diffusion/flow-injection system coupled with a bulk acoustic wave impedance sensor for total inorganic carbonate and its application to determination of total inorganic and total organic carbon in waters, 349 (1997) 143
- Glucose determination in blood samples using flow injection analysis and an amperometric biosensor based on glucose oxidase immobilized on hexacyanoferrate modified nickel electrode, 350 (1997) 91
- Flow injection analysis methods for determination of diffusion coefficients, 350 (1997) 359
- Electrocatalytic oxidation of H<sub>2</sub>O<sub>2</sub> at an oxycobalt film modified glassy carbon electrode for fermentation monitoring, 351 (1997) 133
- Chemiluminescence flow injection analysis of reducing agents based on the luminol reaction, 353 (1997) 345
- Improvement on simultaneous determination of chromium species in aqueous solution by ion chromatography and chemiluminescence detection, 354 (1997) 107
- Standard additions in flow injection analysis with atomic absorption spectrometry, 357 (1997) 151
- Modeling and optimization studies for a sequential flow based bioanalytical system, 359 (1998) 157
- A transient enzymatic inhibition as an efficient tool for the discriminating bioluminescent analysis of three adenylic nucleotides with a fiberoptic sensor based on a compartmentalized trienzymatic sensing layer, 360 (1998) 89
- Introduction of hydrogen peroxide as an oxidant in flow injection analysis: speciation of Cr(III) and Cr(VI), 361 (1998) 125

- Determination of 5-hydroxytryptamine (serotonin) and related indoles by flow injection analysis with acidic potassium permanganate chemiluminescence detection, 362 (1998) 131
- Comparison of various peak evaluation techniques for limited and extended dynamic ranges in flow injection systems, 364 (1998) 97
- Determination of acetaminophen by flow injection with on-line chemical derivatization: Investigations using visible and FTIR spectrophotometry, 364 (1998) 107
- A thermistor as a sensor in gas phase flow injection analysis, 366 (1998) 5
- Flow-injection analysis wit potentiometric detection for the speciation of fluoride and calcium, 366 (1998) 23
- Simultaneous determination of α-amylase and amyloglucosidase activities using flow injection analysis with fourier transform infrared spectroscopic detection and partial least-squares data treatment, 366 (1998) 35
- Determination of reducing sugars by flow injection gravimetry, 366 (1998) 119
- Low-budget flow-injection device for teaching: A \$10 six-port valve, 366 (1998) 217
- Real-time simplex optimization of flow-injection systems for chemical analysis, 366 (1998) 313
- Calibration procedure for flow injection flame atomic absorption spectrometry with interferents as spectrochemical buffers, 367 (1998) 101
- Potentiometric biosensor for control of biotechnological production of penicillin G, 368 (1998) 205
- Amperometric biosensor for uric acid based on uricase-immobilized silk fibroin membrane, 369 (1998) 123
- Potentiometric enzyme electrode in a flow injection system for the determination of urea in human serum samples, 369 (1998) 129
- A polyvalent flow injection system for multielemental spectrophotometric analysis of plant materials, 370 (1998) 39
- Comparison of flow injection analytical biosystems based on opentube and packed-bed enzyme reactors, 370 (1998) 47
- Catalytic simultaneous spectrophotometric determination of nitrite and nitrate with a flow injection system, 370 (1998) 59
- Flow-injection potentiometric determination of free cadmium ions with a cadmium ion-selective electrode, 370 (1998) 267
- Flow injection potentiometry by poly(vinyl chloride)-membrane electrodes with substituted azacrown ionophores for the determination of lead(II) and mercury(II) ions, 372 (1998) 387
- On-line monitoring of galactoside conjugates and glycerol by flow injection analysis, 373 (1998) 57
- Continuous flow-through solid phase spectrophotometric determination of trace amounts of zinc, 375 (1998) 71
- Flow injection system with flame photometric detection for the measurement of the dimethylsulphide precursor  $\beta$ -dimethylsulphoniopropionate, 377 (1998) 95
- Dissolved iron at subnanomolar levels in the Southern Ocean as determined by ship-board analysis, 377 (1998) 113
- Determination of copper complexation in seawater using flow injection analysis with chemiluminescence detection, 377 (1998) 133
- Flow injection analysis-capillary electrophoresis system with hydrodynamic injection, 378 (1999) 55

- Determination of metformin in pharmaceutical preparations using potentiometry, spectrofluorimetry and UV-visible spectrophotometry, 378 (1999) 299
- Amperometric determination of sympathomimetic drugs by flow injection analysis with a metallic copper electrode, 379 (1999) 81
- Dual electrode signal-subtracted biosensor for simultaneous flow injection determination of sucrose and glucose, 380 (1999) 7
- Luminol electrochemiluminescence-based fibre optic biosensors for flow injection analysis of glucose and lactate in natural samples, 381 (1999) 1
- A new sample-injection/sample-dilution system for the flow-injection analytical technique, 381 (1999) 287
- Flow-injection spectrophotometric determination of cyclamate in sweetener products with sodium 1,2-naphthoquinone-4-sulfonate, 381 (1999) 307
- Flow-injection solid-phase spectrophotometry for the determination of zinc in pharmaceutical preparations, 383 (1999) 309
- Determination of Ranitidine and Salbutamol by Flow Injection Analysis with Chemiluminescence Detection, 384 (1999) 151
- Synergetic effects in the flow injection analysis determination of catechol in the presence of excess ascorbic acid by series dualband amperometric detection, 385 (1999) 281
- Flow-injection analysis-electrochemical detection for the determination of drug-protein interactions with microdialysis sampling, 386 (1999) 123
- Factors affecting the analytical applications of zeolite modified electrodes: indirect detection of nonelectroactive cations, 388 (1999) 79
- Chemiluminescence of β-lactam antibiotics based on the luminol reaction, 389 (1999) 89
- Rapid and selective determination of peroxyacetic acid in disinfectants using flow injection analysis, 389 (1999) 233
- On-line ion-exchange preconcentration in a flow injection system coupled to capillary electrophoresis for the direct determination of UV absorbing anions, 390 (1999) 39
- Highly sensitive chemiluminescence flow-injection detection of the red tide phytoplankton Heterosigma carterae, 390 (1999) 237
- Integrated sensor for continuous flow electrochemiluminescent measurements of codeine with different ruthenium complexes, 392 (1999) 95
- A creatinine deiminase modified polyaniline electrode for creatinine analysis, 392 (1999) 143
- Sensitive and rapid flow injection analysis of sulfonylurea herbicides in water with micellar-enhanced photochemically induced fluorescence detection, 392 (1999) 255
- Sorting measurement queues to speed up the flow injection analysis mass spectrometry of combinatorial chemistry syntheses, 394 (1999) 33
- Direct flow injection chemiluminescence determination of salicylamide, 394 (1999) 159
- A bienzyme modified carbon paste electrode for amperometric detection of pyruvate, 394 (1999) 233
- An integrated microdistillation flow injection system for nitrite measurement, 395 (1999) 225
- Flow-injection and stopped-flow completely continuous flow spectrophotometric determinations of aniline and cyclohexylamine, 396 (1999) 151

- Chemiluminescence flow-injection determination of furosemide based on a rhodamine 6G sensitized cerium(IV) method, 396 (1999) 273
- Polycrystalline diamond electrodes: basic properties and applications as amperometric detectors in flow injection analysis and liquid chromatography, 397 (1999) 145
- Semi-automated membrane based chemiluminescent immunosensor for flow injection analysis of okadaic acid in mussels, 398 (1999) 173
- Calibration methods for complex second-order data, 398 (1999) 237

## Flow injection assay

The development of a non-competitive immunoenzymometric assay of cocaine, 358 (1998) 5

## Flow injection hydride generation atomic absorption spectrometry

- Solvent extraction of arsenic from acid medium using zinc hexamethylenedithiocarbamate as an extractant, 360 (1998) 43
- Determination of trimethylselenonium ion by flow injection hydride generation atomic absorption spectrometry, 398 (1999) 273

### Flow injection immunoaffinity analysis (FIIAA)

- Prototype of a newly developed immunochemical detection system for the determination of pesticide residues in water, 347 (1997) 187
- Flow injection immunoaffinity analysis (FIIAA) A screening technology for atrazine and diuron in water samples, 399 (1999) 89

## Flow injection immunoassay

Novel type of flow injection immunoassay for the determination of phenytoin in serum, 391 (1999) 9

### Flow injection on-line preconcentration

Evaluation of an immobilised macrocyclic material for on-line column preconcentration and separation of cadmium, copper and lead for electrothermal atomic absorption spectrometry, 392 (1999) 55

## Flow injection on-line separation and preconcentration

Determination of bismuth in cod muscle, lake and river sediment by flow injection on-line sorption preconcentration in a knotted reactor coupled with electrothermal atomic absorption spectrometry, 354 (1997) 7

## Flow injection parallel analysis

Direct parallel flow injection multichannel spectrophotometric determination of olive oil peroxide value, 389 (1999) 239

### Flow injection potentiometry

- Potentiometric flow injection determination of cadmium in waste waters including in-line ion-exchange separation/concentration, 366 (1998) 155
- Flow injection potentiometry by poly(vinyl chloride)-membrane electrodes with substituted azacrown ionophores for the determination of lead(II) and mercury(II) ions, 372 (1998) 387

## Flow injection preconcentration

Flow injection on-line coprecipitation-preconcentration system using copper(II) diethyldithiocarbamate as carrier for flame

atomic absorption spectrometric determination of cadmium, lead and nickel in environmental samples, 353 (1997) 181

### Flow injection spectrophotometry

- Flow injection spectrophotometric determination of sulfite using a crude extract of sweet potato root (*Ipomoea batatas* (L.) Lam.) as a source of polyphenol oxidase, 354 (1997) 51
- Automatic multicommutation flow system for wide range spectrophotometric calcium determination, 366 (1998) 45
- Flow injection spectrophotometric determination of L-ascorbic acid in pharmaceutical formulations with on-line solid-phase reactor containing copper (II) phosphate, 366 (1998) 55
- Flow injection spectrophotometric determination of total phenols using a crude extract of sweet potato root (*Ipomoea batatas* (L.) Lam.) as enzymatic source, 366 (1998) 111

## Flow injection system

- Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165
- Flow-injection spectrophotometric determination of citric acid in beverages based on a photochemical reaction, 366 (1998) 231
- Introduction of alcohols in inductively coupled plasma mass spectrometry by a flow injection system, 379 (1999) 175

### Flow injection-hydride generation-atomic absorption spectrometry

Determination of As(III) and As(V) by flow injection-hydride generation-atomic absorption spectrometry via on-line reduction of As(V) by KI, 343 (1997) 5

## Flow measurements

Automated pH-ISFET measurements under hydrostatic pressure for marine monitoring application, 356 (1997) 205

### Flow methods

Mercury thread electrode in a flow cell, 332 (1996) 165

### Flow microcalorimetry

Flow microcalorimeter auto-calibration for the analysis of immobilized enzyme kinetics, 355 (1997) 63

## Flow microcell

Study of biomolecules by combining electrochemistry with UV/Vis, IR and surface enhanced Raman scattering spectroscopy by a novel flow microcell, 382 (1999) 171

### Flow pattern

Evolution of the commutation concept associated with the development of flow analysis, 400 (1999) 249

### Flow rate

A thermistor as a sensor in gas phase flow injection analysis, 366 (1998) 5

## Flow reversal

Direct parallel flow injection multichannel spectrophotometric determination of olive oil peroxide value, 389 (1999) 239

#### Flow sensor

Chemiluminescence flow sensor for the determination of vitamin  $B_{12}$ , 357 (1997) 127

Reagentless chemiluminescence flow sensor for sulfite, 361 (1998) 201

Chemiluminescence flow-sensing system for hydrogen peroxide with immobilized reagents, 372 (1998) 357

#### Flow system

Automatic continuous-flow determination of sulphite in the presence of a high concentration of thiosulphate, 302 (1995) 269

Selective stopped-flow determination of manganese with luminol in the absence of hydrogen peroxide, 302 (1995) 275

Flow reversal and flow recycle air-segmented flow injection for simultaneous determination of a binary mixture, 304 (1995) 333

Differential electrochemical mass spectrometry study of the electroless copper plating process using a thin-layer flow-through cell, 305 (1995) 227

Spectrophotometric determination of nitrite with 4-iodo-N,Ndimethylaniline, 306 (1995) 357

Linear flow gradients for automatic titrations, 308 (1995) 67

Spectrophotometric flow-through gas sensor for the determination of atmospheric nitrogen dioxide, 308 (1995) 109

Flow-through tubular ion-selective electrodes responsive to anionic surfactants for flow-injection analysis, 308 (1995) 115

Amperometric flow-through biosensor for the determination of pesticides, 308 (1995) 129

Automatic testing of enzyme modifiers by the flow-gradient technique, 308 (1995) 152

Determination of sulfuric acid in metallurgical process streams by discontinuous flow analysis, 308 (1995) 197

Two-phase liqui-liquid extraction in monosegmented flow analysis.

Determination of cadmium with 1-(2'-pyridylazo) naphthol, 308
(1995) 231

Simultaneous determination of sterols in edible oils by use of a continuous separation module coupled to a gas chromatograph, 308 (1995) 253

Crystal seeding in flow-injection turbidimetry: determination of total sulfur in plants, 308 (1995) 269

Simultaneous and consecutive two-photon excited fluorescence detection in conventional-size liquid chromatography, 309 (1995) 135

Determination of enzyme substrates with an extended range of linearity, 309 (1995) 251

A stopped-flow/continuous-flow method for kinetic determinations, 309 (1995) 277

Use of a stopped-flow/T-format spectrofluorimeter for simultaneous kinetic analyses, 310 (1995) 453

Development of an optical flow-through biosensor for the determination of sulphite in environmental samples, 311 (1995) 281

Continuous flow titration system for the generation of multivariate spectrophotometric data in the study of acid-base equilibria, 312 (1995) 189

Effects of gas flow-rates on a Clark-type oxygen gas sensor, 313 (1995) 89

Binary search in flow titration employing photometric end-point detection, 313 (1995) 177

Graphite-poly(tetrafluoroethylene) electrodes as electrochemical detectors in flowing systems, 314 (1995) 13

Derivative dynamic response of ion-selective electrodes. Application to the precipitate-based iodide-selective electrode in the presence of interfering ions, 315 (1995) 63

Continuous kinetic method for the quantitative resolution of structural isomers of arginine and ornithine, 315 (1995) 145

Sequential injection analysis of nitrites and nitrates, 315 (1995)

Self-configuration of sequential injection analytical systems, 316 (1995) 27

An on-line flow-injection analysis system for the determination of acetate, 316 (1995) 117

A flowing electrolytic hydride generator for continuous sample introduction in atomic spectrometry, 316 (1995) 129

Sequential analyte removal in flow analysis: determination of nitrogen, phosphorus and potassium in fertilizers, 317 (1995) 239

On-line coupling of isolation/in situ concentration integrated with derivative synchronous spectrofluorimetry for the simultaneous determination of epinephrine and norepinephrine in urine, 317 (1995) 335

Chemiluminescence flow system for the monitoring of chromium(VI) in water, 318 (1995) 71

Determination of dissolved silica in waters by a flow-based analysis system composed of a laser diode and a thin long flow-through cell, 318 (1996) 195

Novel potentiometric monitoring combined with coulometric reagent generation, 319 (1996) 49

Nation-based optode for the detection of metal ions in flow analysis, 319 (1996) 127

Determination of mercury in saliva with a flow-injection system, 320 (1996) 171

Flow system based on a binary sampling process for automatic dilutions prior to flame atomic spectrometry, 323 (1996) 47

On line coupling of a liquid-liquid extraction flow-reversal system to a spectrophotometric flow-through sensor for the determination of polyphenols in olive oil, 323 (1996) 55

A study of irreversible electrode processes under steady-state flowing solution conditions with a microelectrode based scanning electrochemical detector, 324 (1996) 1

Selective determination of gas dialysable components in complex sample solutions using triangle programmed coulometric titration in continuous flow systems., 324 (1996) 115

Stripping voltammetry at preplated mercury coated microelectrodes in flowing solutions, 325 (1996) 11

Spectrofluorimetric flow-injection method for the successive determination of chloroxine and chlorquinaldol in pharmaceutical preparations, 326 (1996) 41

Automatic calibration in continuous flow analysis, 327 (1996) 83

Electrochemical detection of NADH and dopamine in flow analysis based on tetraruthenated porphyrin modified electrodes, 329 (1996) 91

Flow injection extraction spectrophotometric determination of copper using bis(acetylacetone)ethylenediimine, 331 (1996) 253

Chemiluminescence arising from the oxidation of bilirubin in aqueous media, 333 (1996) 267

- Design and construction of a flow system for determination of Cu(II) ions in water by means of a chemically modified carbon paste electrode, 335 (1996) 275
- Determination of L-asparagine using flow-injection systems with spectrophotometric and potentiometric detection, 336 (1996) 113
- Sequential-injection extraction for sample preparation, 337 (1997)
- Development and characterization of anodically initiated luminescent detection for alcohols and carbohydrates, 337 (1997) 207
- On-line trace metal determination by pre-concentration on immobilized 8-quinolinol with flow recycling anodic stripping voltammetry, 339 (1997) 155
- Theoretical treatment of the current vs. time response of microelectrode arrays to changes of potential, concentration, or flow, 341 (1997) 121
- Use of a carbon paste modified electrode for the determination of 2nitrophenol in a flow system by differential pulse voltammetry, 344 (1997) 167
- A flow cell for on-line monitoring of metals in natural waters by voltammetry with a mercury drop electrode, 346 (1997) 101
- Determination of *trans*-resveratrol and other polyphenols in wines by a continuous flow sample clean-up system followed by capillary electrophoresis separation, 359 (1998) 27
- Automatic determination of iron in geothermal fluids containing high dissolved sulfur-compounds using flow injection electrothermal atomic absorption spectrometry with an on-line microwave radiation precipitation-dissolution system, 366 (1998) 295
- Spectrophotometric determination of ozone in ozonized air currents with chemical gas-liquid transfer using a microreactor, 380 (1999) 93
- In situ preparation of a cholesterol biosensor: entrapment of cholesterol oxidase in an overoxidized polypyrrole film electrodeposited in a flow system. Determination of total cholesterol in serum, 385 (1999) 213
- A poly(vinyl choloride) graphite composite electrode for flowinjection amperometric determination of antioxidants, 395 (1999) 217
- Spectrophotometric determination of silicate in rain and aerosols by flow analysis, 396 (1999) 285

## Flow system biosensors

Continuous-flow/stopped-flow system incorporating a rotating bioreactor for the determination of penicillins in pharmaceutical products, 396 (1999) 143

## Flow through method

Selective and sensitive determination of trace manganese in sea water by flow through technique using luminol-hydrogen peroxide chemiluminescence detection, 377 (1998) 125

### Flow titration

Time-division multiplex technique for producing concentration profiles in flow analysis, 368 (1998) 105

## Flow-analysis

Theory and practice of rapid flow-through analysis based on ionselective optode detection and its application to sodium ion determination, 396 (1999) 131

### Flow-batch titrator

A flow-batch titrator exploiting a one-dimensional optimisation algorithm for end point search, 396 (1999) 91

## Flow-injection conductometry

Flow-injection conductometric determination of acidity in industrial hydrated ethyl alcohol, 366 (1998) 81

## Flow-injection flame AAS

Speciative determination of chromium(VI) and chromium(III) using flow-injection on-line preconcentration and flame atomicabsorption spectrometric detection, 369 (1998) 69

## Flow-injection immunoassay

Flow-injection immunoassay using OPA derivatization, 374 (1998)

Flow-injection- and sequential-injection immunoassay for triiodothyronine using acridinium ester chemiluminescence detection, 398 (1999) 183

## Flow-injection liposome immunoanalysis (FILIA)

Comparison of liposome amplification and fluorophor detection in flow-injection immunoanalyses, 354 (1997) 23

### Flow-injection potentiometry

Flow injection discrimination of the chloride interference with Cu(II) electrode function of chalcogenide based solid-state copper ion-selective electrodes, 362 (1998) 221

## Flow-injection sorbent extraction

Use of 4-(2-pyridylazo)resocinol or 2-(2-pyridylazo)-5-dimethylaminophenol as chelating agent for determination of cadmium in seawater by atomic absorption spectrometry with on-line flowinjection sorbent extraction, 376 (1998) 305

## Flow-injection spectrophotometry

Solid-phase reactor with copper(II) phosphate for flow-injection spectrophotometric determination of aspartame in tabletop sweeteners, 384 (1999) 167

## Flow-through

Simultaneous determination of traces of iron(II) and iron(III) using differential pulse anodic stripping voltammetry in a flowthrough configuration on a glassy carbon electrode, 376 (1998) 325

## Flow-through cell

Simultaneous adsorptive stripping voltammetric determination of molybdenum(VI), uranium(VI), vanadium(V), and antimony(III), 394 (1999) 81

## Flow-through immunosensors

Development of an automated controlled-pore glass flow-through immunosensor for carbaryl, 347 (1997) 199

## Flow-through optosensing

Flow-through room temperature phosphorescence optosensing for the determination of lead in sea water, 395 (1999) 1

### Flow-through sensor

Continuous flow-through solid phase spectrophotometric determination of trace amounts of zinc, 375 (1998) 71

### Flufenamic and mefenamic acids

Determination of flufenamic and mefenamic acids in pharmaceutical preparations using organized media, 367 (1998) 41

#### Fluid extraction

Combined experimental design and information theory for the optimization of supercritical fluid extraction of organic priority pollutants from sediment, 351 (1997) 377

### Fluid room-temperature phosphorescence

Room-temperature phosphorescence of dansyl chloride solution in the absence of protective medium and its medium effect, 341 (1997) 241

## Fluorene

Close overlapping discrimination of polycyclic aromatic hydrocarbons by synchronous scanning at variable-angle solid-phase spectrofluorimetry, 302 (1995) 193

Determination of polycyclic aromatic hydrocarbons by spectrofluorimetry, 388 (1999) 27

#### Fluorescein

Study on total luminescence spectra. Application of the Monte-Carlo method to three-dimensional synchronous fluorescence spectrometry, 306 (1995) 307

Fluorescein mercury(II) acetate and sodium fluorescein as reagents for the determination of bis(2-chloroethyl)sulfide by fluorescence quenching, 387 (1999) 207

Considerations for the quantitative transduction of hybridization of immobilized DNA, 400 (1999) 73

## Fluorescein analogues

Fluorescent sensor based on newly synthesized fluorescein octadecyl ether octadecyl ester (FODEE) for direct determination of phenols in aqueous solutions, 351 (1997) 197

## Fluorescein as sensitizer

Chemiluminescence measurement of tertiary amines using the continuous-addition-of-reagent technique. Determination of trimethylamine in fish samples, 356 (1997) 51

## Fluorescein derivatives

Highly sensitive detection of membrane-bound DNA using fluorescein derivatives, 339 (1997) 289

## Fluorescein mercuric acetate

Development of sulphide-selective optode membranes based on fluorescence quenching, 344 (1997) 105

### Fluorescein-11-dUTP

Quantitative analysis by the polymerase chain reaction using fluorescence correlation spectroscopy, 365 (1998) 43

### Fluorescence

Determination of secondary amines as highly fluorescent formamidines by high-performance liquid chromatography, 334 (1996) 45

Resonance light scattering study of aggregation of two water soluble porphyrins due to their interaction with bovine serum albumin, 343 (1997) 281

Time-resolved fluorescence studies of the interaction of the Eu<sup>3+</sup> complexes of tetracycline analogues with DNA, 345 (1997) 213

A strategy for the broad range detection of compounds with affinity for nucleic acids, 347 (1997) 79

A fluorescence lifetime-based solid sensor for water, 350 (1997) 97 Solid-matrix luminescence analysis: photophysics, physicochemical interactions and applications, 351 (1997) 1

Liquid chromatography of peptides treated with fluorogenic reagents and its application to analyses of opioid peptides, their precursors and related enzymes in rat brain, 352 (1997) 103

Flow immunoassay using a cation exchange column and fluorescence-labelled antibody for detection of allergen, 354 (1997)

Evaluation of the adsorptive immobilisation of horseradish peroxidase on PTFE tubing in flow systems for hydrogen peroxide determination using fluorescence detection, 359 (1998) 149

Cyclodextrin-enhanced fluorescence and photochemically-induced fluorescence determination of five aromatic pesticides in water, 360 (1998) 129

Characterization of the fluorescence properties of 4-fluoro-7-nitrobenzo-2-oxa-1,3-diazole derivatives of some primary and secondary sympathomimetic amines, 365 (1998) 169

Formation of highly fluorescent adducts between 2'-deoxyguanosine and amino acids by ionizing radiation, 365 (1998) 183

A sensitive fluorescence probe for DDT-type pesticides, 368 (1998)

Fluorimetric—enzymatic determination of glucose based on labelled glucose oxidase, 368 (1998) 97

Oxygen detection by fluorescence quenching of tetraphenylporphyrin immobilized in the original cladding of an optical fiber, 370 (1998) 1

A novel screening method for tetracycline in milk combining sensitized-Eu(III) fluorescence and immunoaffinity techniques, 375 (1998) 1

Interaction studies between europium and a surfactant cage "TAC8" by time-resolved laser-induced fluorescence, 378 (1999) 47

Quantification of 2.4.5-trichlorophenoxyacetic acid by fluorescence enzyme-linked immunosorbent assay with secondary antibody, 378 (1999) 219

Introduction to measurement of color of fluorescent materials, 380 (1999) 183

Instrumentation, standards, and procedures used at the National Research Council of Canada for high-accuracy fluorescence measurements, 380 (1999) 193

Problems in colour measurement of fluorescent paper grades, 380 (1999) 227

Standards for the measurement of diffuse reflectance – an overview of available materials and measurement laboratories, 380 (1999) 379

Fluorescein mercury(II) acetate and sodium fluorescein as reagents for the determination of bis(2-chloroethyl)sulfide by fluorescence quenching, 387 (1999) 207

Window target-testing factor analysis: theory and application to the chromatographic analysis of complex mixtures with multiwave-length fluorescence detection, 389 (1999) 95

Novel type of flow injection immunoassay for the determination of phenytoin in serum, 391 (1999) 9 Molecular spectroscopic study of DNA binding with neutral red and application to assay of nucleic acids, 396 (1999) 75

Spectrochemical investigations in dendritic media: evaluation of nitromethane as a selective fluorescence quenching agent in aqueous carboxylate-terminated polyamido amine (PAMAM) dendrimers, 397 (1999) 17

Excitation-emission matrix fluorescence based determination of carbamate pesticides and polycyclic aromatic hydrocarbons, 397 (1999) 61

Simultaneous absorbance, fluorescence and refractive index (SAFRIN) detection for Micro LC, 397 (1999) 191

Optochemical sensing by immobilizing fluorophore-encapsulating liposomes in sol-gel thin films, 400 (1999) 45

Bioanalytics: detailed insight into bioprocesses, 400 (1999) 121

Tracing polar benzene- and naphthalenesulfonates in untreated industrial effluents and water treatment works by ion-pair chromatography-fluorescence and electrospray-mass spectrometry, 400 (1999) 211

light on the next millennium, 400 (1999) 281

## Fluorescence anisotropy

A rapid method for the determination of molar ratio of fluorophore to protein by fluorescence anisotropy detection, 389 (1999) 85

## Fluorescence correlation spectroscopy

Quantitative analysis by the polymerase chain reaction using fluorescence correlation spectroscopy, 365 (1998) 43

## Fluorescence derivatization

Single-label fluorescent derivatization of peptides, 339 (1997) 279
Serotonin monitoring in microdialysate from rat brain by microboreliquid chromatography with fluorescence detection, 365 (1998)
227

Simultaneous determination of 7-methylguanine and O<sup>6</sup>-methylguanine in DNA by liquid chromatography with postcolumn fluorescence derivatization using 3,4-dimethoxyphenylglyoxal, 365 (1998) 233

Liquid chromatographic determination of amino acids and peptides by pre-column fluorescence derivatization with N-hydroxysuccinimidyl-α-(9-acridine)-acetate, 367 (1998) 69

New reagents for determination of amino acids by liquid chromatography with pre-column fluorescence derivatization, 367 (1998) 81

## Fluorescence derivatization reagent

Aromatic glycinonitriles and methylamines as pre-column fluorescence derivatization reagents for catecholamines, 344 (1997) 233

## Fluorescence detection

Determination of the marker residue of albendazole in milk using ion-pair liquid chromatography and fluorescence detection, 345 (1997) 111

Discrimination of D/L-amino acid in peptide sequence based on fluorescent chiral derivatization by reversed-phase liquid chromatography, 352 (1997) 357

Optical immunoprobe development for multiresidue monitoring in water, 362 (1998) 69

Liquid chromatographic determination of 5-methylcytosine in DNA with fluorescence detection, 365 (1998) 213

Simultaneous determination of serum and urinary hydroxyproline and proline by liquid chromatography using two fluorescent labeling reagents, 365 (1998) 219

Determination of trace metal ions by capillary electrophoresis with fluorescence detection based on post-column complexation with 8-hydroxyquinoline-5-sulphonic acid, 371 (1998) 269

Chromatographic determination of diuretics in urine samples using hybrid micellar mobile phases with fluorimetric detection, 375 (1998) 143

Determination of the pesticide Naptalam, at the ppb level, by FIA with fluorimetric detection and on-line preconcentration by solid-phase extraction on C<sub>18</sub> modified silica, 384 (1999) 185

Simple and highly sensitive determination of morphine in rat plasma by liquid chromatography with fluorescence detection, 387 (1999) 121

## Fluorescence emission spectroscopy

Voltammetric and spectroscopic studies of the oxidation of the antioxidant drug dipyridamole in acetonitrile and ethanol, 375 (1998) 223

## Fluorescence endoscopy

Some spectroscopic and transport properties of a rare-earth chelate, Tb-PCTMP, 397 (1999) 267

#### Fluorescence immunoassay

A novel polymer-mimetic enzyme immunoassay system based on thermal phase separating technique, 375 (1998) 177

## Fluorescence lifetime difference

Development of homogeneous phase-modulation fluoroimmunoassay for 2,4-dichlorophenoxyacetic acid, 395 (1999) 133

### Fluorescence line-narrowing

light on the next millennium, 400 (1999) 281

## Fluorescence line-narrowing spectroscopy (FLNS)

Fluorescence line-narrowing spectroscopy of analytes deposited on thin-layer chromatography plates, 389 (1999) 77

## Fluorescence polarization

A rapid method for the determination of molar ratio of fluorophore to protein by fluorescence anisotropy detection, 389 (1999)

## Fluorescence polarization immunoassay

A fluorescence polarization immunoassay for cadmium(II), 399 (1999) 161

## Fluorescence properties

Studies of the influence of the surfactant sodium dodecyl sulfate on the fluorescence properties of kinetin, 329 (1996) 161

## Fluorescence quantum yield

Investigation of fluorescence efficiency in the europium-thenoyltrifluoroacetone chelate in aqueous and ethanolic solutions by laser-induced fluorescence and photothermal spectroscopic methods, 317 (1995) 343

## Fluorescence quenching

Interaction of tyrosine and tyrosine dipeptides with Cu<sup>2+</sup> ions: a fluorescence study, 315 (1995) 217

Determination of proteins by fluorescence quenching of erythrosin B, 333 (1996) 83

Development of sulphide-selective optode membranes based on fluorescence quenching, 344 (1997) 105

Determination of DNA and RNA by their quenching effect on the fluorescence of the Tb<sup>3+</sup>-Tiron complex, 353 (1997) 329

Determination of copper at ng ml<sup>-1</sup>-levels based on quenching of the europium chelate luminescence, 364 (1998) 125

Novel method of detecting mismatch on DNA by using photoinduced electron transfer through DNA, 365 (1998) 49

Determination of nucleic acids using phosphin 3R as a fluorescence probe, 394 (1999) 177

#### Fluorescence sensor

A fiber-optic pH sensor prepared using a base-catalyzed organosilica sol-gel, 376 (1998) 235

## Fluorescence spectroscopy

A new fluorescent probe for sensitive detection of carbonyl compounds, 382 (1999) 253

## Fluorescent brightening agents

Problems in colour measurement of fluorescent paper grades, 380 (1999) 227

## Fluorescent labeling

Quantitative analysis by the polymerase chain reaction using fluorescence correlation spectroscopy, 365 (1998) 43

## Fluorescent organic compounds

Chemiluminescence from fluorescent organic compounds induced by cobalt(II) catalyzed decomposition of peroxomonosulfate, 371 (1998) 163

## Fluorescent probe

Study on the dimer-monomer equilibrium of a fluorescent dye and its application in nucleic acids determination, 361 (1998) 9

Design, synthesis and characterization of a novel fluorescent probe for nitric oxide (nitrogen monoxide), 365 (1998) 159

Study of the reaction between nucleic acids and the trihydroxyanthroquinone-Al complex and its analytical application, 392 (1999) 291

### Fluorescent sample

Serial filter method for fluorescence evaluation, 380 (1999) 417

## Fluorescent technique

A rapid method for the determination of molar ratio of fluorophore to protein by fluorescence anisotropy detection, 389 (1999) 85

### Fluoride

On-line pervaporation separation process for the potentiometric determination of fluoride in "dirty" samples, 308 (1995) 246

Fluoride determination by its inhibitory effect on immobilised liver esterase, 310 (1995) 173

Comparison of deuterium arc and Smith-Hieftje background correction for graphite furnace molecular absorption spectrometry of fluoride and chloride, 315 (1995) 167 Search for chemical separation of element 106 homologues in HF and HF-HCl media, 332 (1996) 257

Flow-injection analysis wit potentiometric detection for the speciation of fluoride and calcium, 366 (1998) 23

Performance of arylboronic acids as ionophore for inorganic anions studied by fluorometry and potentiometry, 387 (1999) 189

Separation and preconcentration of fluoride at the ng ml<sup>-1</sup> level with a polymer complex of zirconium(IV) followed by potentiometric determination in a flow system, 388 (1999) 201

## Fluoride ion-selective electrode

Determination of free and total fluoride in rain water using a continuous-flow system equipped with a fluoride ion-selective electrode detector, 364 (1998) 117

#### Fluorimetric determination

Fluorimetric determination of epinephrine with o-phenylenediamine, 363 (1998) 105

#### Fluorimetric method

Fluorescence reaction of bilirubin with zinc ion in dimethyl sulfoxide and its application to assay of total bilirubin in serum, 365 (1998) 177

## Fluorimetry

Quantitative determination of cyanobacteria in mixed phytoplankton assemblages by an in vivo fluorimetric method, 302 (1995) 81

Determination of quinolinic acid in human urine by liquid chromatography with fluorimetric detection, 302 (1995) 179

Determination of triphenyltin in sea water samples by liquid chromatography with fluorimetric detection, 302 (1995) 185

Close overlapping discrimination of polycyclic aromatic hydrocarbons by synchronous scanning at variable-angle solid-phase spectrofluorimetry, 302 (1995) 193

Development of a monitoring tape for ammonia gas in air by fluorescence detection, 302 (1995) 201

Determination of reserpine by in situ sensitized photochemical spectrofluorimetry, 302 (1995) 207

Identification of stereoisomeric benzo[a]pyrene tetrols by reversedphase liquid chromatography coupled semi-on-line to fluorescence line-narrowing spectroscopy, 303 (1995) 3

Post-column zirconium chelation and fluorescence detection for the liquid chromatographic determination of tetracyclines, 303 (1995) 11

Fluorescence characterization of acid-base interaction and mobility at chromatographic interfaces, 303 (1995) 17

Proton-transfer kinetics of photoexcited 2-hydroxybiphenyl in aqueous methanol solutions, 303 (1995) 25

Individual and joint stopped flow kinetic spectrofluorimetric determination of neomycin and tyrothricin, 303 (1995) 31

Modified β-cylclodextrins as enhancers of fluorescence emission of carbazole alkaloid derivatives, 303 (1995) 47

Analysis of the perturbation of phospholipid model membranes by a multiple antigenic peptide, 303 (1995) 57

Surface and polarization fluorescence studies on the interaction of an RGD sequence containing a Hepatitis A virus peptide with phospholipids, 303 (1995) 65

- Solvent effects on the fluorescent emission of some new benzimidazole derivatives, 303 (1995) 73
- Interaction of merocyanine 540 with cations of physiological solutions, 303 (1995) 79
- Determination of phthalate-induced rat liver cytochrome P-450 IVA1 by a fluorimetric enzymatic assay and by chemiluminescence detection on Western blots, 303 (1995) 99
- Determination of trace aluminum in natural waters by flow-injection analysis with fluorescent detection of the lumogallion complex, 303 (1995) 211
- Thiophilic gels: applications in flow-injection immunoassays for macromolecules and haptens, 303 (1995) 223
- Analysis of polynuclear aromatic compounds using laser-excited synchronous fluorescence, 303 (1995) 247
- Fluorimetric determination of mercury with a water-soluble porphyrin and porphyrin-doped sol-gel films, 304 (1995) 107
- Dependence of the fluorescence of immobilized 1-hydroxypyrene-3,6,8-trisulfonate on solution pH: extension of the range of applicability of a pH fluorosensor, 304 (1995) 165
- Determination of free N-acetyl neuraminic acid by ultrafiltration and liquid chromatography in the serum of normal and cancer patients, 306 (1995) 65
- Study on total luminescence spectra. Application of the Monte-Carlo method to three-dimensional synchronous fluorescence spectrometry, 306 (1995) 307
- Variable-angle scanning fluorescence spectrometry for the simultaneous determination of three diuretic drugs, 306 (1995) 313
- Application of binaphthyl-based amphiphiles Determination of benzo[a]pyrene by fluorescence energy transfer, 306 (1995) 323
- Biotinylated and streptavidinylated liposomes as labels in cytokine immunoassays, 306 (1995) 333
- Determination of betamethasone and dexamethasone in plasma by fluorogenic derivatization and liquid chromatography, 307 (1995) 103
- Analysis of trace level peptides using capillary electrophoresis with UV laser-induced fluorescence, 307 (1995) 163
- New fluorescence tools for investigating enzyme activity, 307 (1995) 393
- Time-resolved, total internal reflection fluorescence microscopy of cultured cells using a Tb chelate label, 307 (1995) 403
- Comparing organized media types using fluorescence probe characterization methods, 307 (1995) 419
- Fluorimetric-flow injection determination of theophylline based on its inhibitory effect on immobilized alkaline phosphatase, 308 (1995) 159
- Spectrofluorimetric flow-injection determination of potassium in serum based on enzyme activation, 308 (1995) 178
- Sequential flow-injection spectrofluorimetric determination of coumarins using a double-injection single-line system, 308 (1995) 203
- Determination of metal ion mixtures using pH gradient flow-injection analysis with fluorescence detection, 308 (1995) 313
- Spectrofluorimetric determination of berberine in oriental pharmaceutical preparations by flow-injection analysis coupled with liquid-liquid extraction, 308 (1995) 329
- Spectrofluorimetric flow injection determination of adrenaline with an iodine solid-phase reactor, 308 (1995) 334

- Rapid determination of mercury in environmental materials using on-line microwave digestion and atomic fluorescence spectrometry, 308 (1995) 364
- Simultaneous and consecutive two-photon excited fluorescence detection in conventional-size liquid chromatography, 309 (1995) 135
- Selective flow-injection determination of methanol using immobilized enzyme reactors, 309 (1995) 241
- Flow-injection stopped-flow spectrofluorimetric kinetic determination of total ascorbic acid based on an enzyme-linked coupled reaction, 309 (1995) 271
- Fluorometric detection of heavy metals with N-methyl-N-9-(methylanthracene)-N'-benzoylthiourea, 309 (1995) 339
- Use of a stopped-flow/T-format spectrofluorimeter for simultaneous kinetic analyses, 310 (1995) 453
- Study of acid-base properties of fulvic acids using fluorescence spectrometry and multivariate curve resolution methods, 310 (1995) 473
- A cyanine fluorophore with a hydrazide functionality as labelling reagent for aldehydes in liquid chromatography, 311 (1995) 47
- Signal enhancement of dansyl amino acids by fluorimetric detection with a packed flow cell in microcolumn liquid chromatography, 311 (1995) 231
- Validation of two immunoassay methods for environmental monitoring of carbaryl and 1-naphthol in ground water samples, 311 (1995) 319
- Applicability of low temperature high-resolution fluorescence spectroscopy to the analysis of nitro and amino polycyclic aromatic hydrocarbons, 312 (1995) 165
- Study on strongly polarized water in AOT reversed micelles by fluorescence probes and analytical application of AOT reversed micelles, 312 (1995) 337
- Sensitivity enhancement of fluorescent pH indicators using pHdependent energy transfer, 313 (1995) 131
- Quantitative analysis of sulfadiazine using photochemically induced fluorescence detection in bulk solution and in a flow injection system, 314 (1995) 45
- Enantiometric separation of di- and tri-peptides with chiral fluorescence labeling reagents by liquid chromatography, 314 (1995) 169
- Liquid chromatographic determination of triphenyltin and tributyltin using fluorimetric detection, 314 (1995) 175
- Column liquid chromatography with diode laser-induced fluorescence detection of carboxylic acids after pre-column derivatisation, 315 (1995) 209
- Interaction of tyrosine and tyrosine dipeptides with Cu<sup>2+</sup> ions: a fluorescence study, 315 (1995) 217
- Optical sensing of anions via polarity-sensitive dyes: a bulk sensor membrane for nitrate, 316 (1995) 239
- Sensitive assay for melatonin in human serum by liquid chromatography, 316 (1995) 377
- On-line coupling of isolation/in situ concentration integrated with derivative synchronous spectrofluorimetry for the simultaneous determination of epinephrine and norepinephrine in urine, 317 (1995) 335
- Investigation of fluorescence efficiency in the europium-thenoyltrifluoroacetone chelate in aqueous and ethanolic solutions by

- laser-induced fluorescence and photothermal spectroscopic methods, 317 (1995) 343
- A new rapid fluorimetric method for the determination of carbonic anhydrase, 317 (1995) 353
- Direct determination of quinidine in urine, 317 (1995) 359
- Micelle enhanced spectrofluorimetric assay for laccase activity by a flow-injection stopped-flow technique, 318 (1995) 63
- Simultaneous use of evolving factor analysis of fluorescence spectral data and analysis of pH titration data for comparison of the acid-base properties of fulvic acids, 318 (1996) 365
- Continuous fluorimetric assay for human aldehyde dehydrogenase and its application to blood analysis, 319 (1996) 209
- Detection of polychlorinated biphenyls by photoactivated fluorescence and by sensitized laser photolysis, 319 (1996) 221
- Derivative linear variable-angle scanning fluorescence spectrometry for the determination of closely overlapping drug mixtures, 319 (1996) 361
- Fluorimetric investigation of reactions between ozone and excited state aromatic compounds on silica gel, 319 (1996) 369
- Effects of photochemical reactions of pyrene in alcohol and aqueous solvent systems on spectroscopic analyses, 319 (1996) 379
- Synchronous scanning second derivative spectrofluorimetry for the simultaneous determination of diflunisal and salicylic acid added to serum and urine as ternary complexes with terbium and EDTA, 320 (1996) 107
- Efficient quenching of the fluorescence of binaphthyl-based amphiphiles by mercury(II) complexes, 320 (1996) 115
- Kinetic behaviour of the malonaldehyde-thiobarbituric acid reaction. Kinetic-fluorimetric determination of malonaldehyde in human serum, 320 (1996) 125
- Use of fluorescence polarization to probe the structure and aluminum complexation of three molecular weight fractions of a soil fulvic acid, 321 (1996) 113
- Direct and fast uranium determination in zirconium by timeresolved laser-induced fluorescence spectrometry, 321 (1996) 121
- Reverse-phase optode. Design and characterization of an organic acid-selective optode membrane based on fluorescein sodium, 322 (1996) 99
- Multiwavelength fluorescence detection for purity analysis of fluorescence agents using capillary electrophoresis with a chargecoupled device, 322 (1996) 187
- Continuous microwave assisted pervaporation/atomic fluorescence detection: An approach for speciation in solid samples, 324 (1996) 69
- Spectrochemical investigations in molecularly organized solvent media: evaluation of nitromethane as a selective fluorescence quenching agent for alternant PAHs dissolved in micellar solvent media, 324 (1996) 175
- Selective flow injection procedures for the determination of nitrogen containing analytes by gasdialytic-fluorimetric detection of enzymatically generated ammonia, 325 (1996) 93
- Simultaneous determination of cephalexin and cefadroxil by using the coupling technique of synchronous fluorimetry and H-point standard additions method, 325 (1996) 195
- An optosensor based on the fluorescence of metal complexes adsorbed on Chelex 100, 325 (1996) 201

- Spectrofluorimetric flow-injection method for the successive determination of chloroxine and chlorquinaldol in pharmaceutical preparations, 326 (1996) 41
- Indirect fluorometric detection for non-suppressed ion chromatographic separation of analyte anions using ruthenium(II) complex as ion-interaction reagent, 326 (1996) 67
- Direct determination of triamterene in urine by matrix isopotential synchronous fluorescence spectrometry, 326 (1996) 117
- α-Cyclodextrin as a restricted access mobile phase for reversedphase liquid chromatography with fluorimetric detection of phenolic compounds, 328 (1996) 73
- Time-resolved spectroscopy of long-path fluorescence and scattering for measuring total absorption of fluids, 330 (1996) 183
- Use of cloud point extraction methodology for the determination of PAHs priority pollutants in water samples by high-performance liquid chromatography with fluorescence detection and wavelength programming, 330 (1996) 199
- Continuous in-vivo monitoring of metronidazole in cerebrospinal fluid by a on-line flow-cell fiber-optic chemical sensor system, 331 (1996) 103
- A flow-injection continuous filtration approach for the automatic determination of monoclonal antibodies, 331 (1996) 245
- Flow-injection stopped-flow spectrofluorimetric kinetic determination of paracetamol based on its oxidation reaction by hexacyanoferrate(III), 333 (1996) 59
- Enhancement of the fluorescence intensity of Se-2,3-diaminonaphthalene complex in aqueous solution by adding organic solvents, 334 (1996) 161
- Towards a homogeneous fluorescence assay for a herbicide: characterization of the interactions of fusilade, bromomethylmethoxy coumarin derivatized fusilade, and anti-fusilade IgG antibody, 336 (1996) 157
- Correction of fluorescence inner filter effects and the partitioning of pyrene to dissolved organic carbon, 338 (1997) 155
- Single-label fluorescent derivatization of peptides, 339 (1997) 279 Highly sensitive detection of membrane-bound DNA using fluorescein derivatives, 339 (1997) 289
- Simultaneous monitoring of pH, CO<sub>2</sub> and O<sub>2</sub> using an optical imaging fiber, 340 (1997) 123
- Determination of DNA using sodium 9,10-anthraquinone-2-sulfonate as an in situ photochemical fluorescence probe, 340 (1997)
- Diode laser induced near infra-red fluorescence detection for highperformance liquid chromatography analysis of indocyanine green in plasma, 342 (1997) 145
- An approach for monitoring subcritical water extraction kinetics of fluorescent analytes, 342 (1997) 215
- Application of pulsed laser methods to in situ probing of highway originated pollutants, 343 (1997) 93
- Study on sensitized photochemical fluorescence of menadione sodium bisulfite and its application in pharmaceutics analysis, 343 (1997) 109
- Fluorescent sensor based on newly synthesized fluorescein octadecyl ether octadecyl ester (FODEE) for direct determination of phenols in aqueous solutions, 351 (1997) 197
- Photochemical-fluorimetric determination of folic acid in a multicommutated flow system, 351 (1997) 223

Simultaneous determination of atenolol, propranolol, dipyridamole and amiloride by means of non-linear variable-angle synchronous fluorescence spectrometry, 370 (1998) 9

Room-temperature phosphorescence of acenaphthene in aerated solutions in the presence of bromoalcohols and γ-cyclodextrin, 370 (1998) 199

Organic solvent enhanced spectrofluorimetric method for determination of laccase activity, 374 (1998) 99

Quercetin-La(III) complex for the fluorimetric determination of nucleic acids, 381 (1999) 17

Application of iron-tetrasulfonatophthalocyanine as a new mimetic peroxidase in the determination of hydrogen peroxide with p-hydroxyphenylpropionic acid as a substrate, 381 (1999) 175

Determination of glucose based on the effect of photons as a substitute for glucose oxidase, 388 (1999) 11

Fluorimetric method for the determination of thiocyanate with 2',7'dichlorofluorescein and iodine, 394 (1999) 171

Simple detector for oral malodour based on spectrofluorimetric measurements of hydrogen sulphide in mouth air, 398 (1999) 23

#### Fluorine

Detection of fluorine emission lines from Grimm-type glow-discharge plasmas - use of neon as the plasma gas, 324 (1996) 147

## Fluorocarbon polymers

Determination of ultratrace metallic impurities in fluorocarbon polymers by electrothermal atomic absorption spectrometry after decomposition with a combustion system, 336 (1996) 151

## Fluorogenic substrate

Comparative study of some synthesised and commercial fluorogenic substrates for horseradish peroxidase and its mimetic enzyme hemin by a flow injection method, 340 (1997) 159

### Fluorohydrocarbons

Semiconductor sensors for the detection of fluorocarbons, fluorine and hydrogen fluoride, 393 (1999) 49

## Fluoroimmunoassay

Development of homogeneous phase-modulation fluoroimmunoassay for 2,4-dichlorophenoxyacetic acid, 395 (1999) 133

## Fluorometric determination

Fluorometric determination of microamounts of hydrogen peroxide with an immobilized enzyme prepared by coupling horseradish peroxidase to chitosan beads, 374 (1998) 191

### Fluorometry

Fluorometric determination of periodate with thiamine and its application to the determination of ethylene glycol and glycerol, 359 (1998) 87

Fluorometric determination of N<sup>1</sup>-methylnicotinamide in human urine and serum by liquid chromatography postcolumn photoirradiation with a mobile phase containing 18-crown-6, 363 (1998) 133

Performance of arylboronic acids as ionophore for inorganic anions studied by fluorometry and potentiometry, 387 (1999) 189

An anthracene-substituted benzoylthiourea for the selective determination of Hg(II) in micellar media, 388 (1999) 19

### 4-Fluoro-7-nitrobenzo-2-oxa-1,3-diazole

Characterization of the fluorescence properties of 4-fluoro-7-nitrobenzo-2-oxa-1,3-diazole derivatives of some primary and secondary sympathomimetic amines, 365 (1998) 169

#### Fluorophore

Enzymatically generated polyphenols as array-based metal-ion sensors, 370 (1998) 251

### Fluoropyrimidine drugs

Simultaneous determination of 5'-deoxy-5-fluorouridine, 5-fluorouracil and 5,6-dihydro-5-fluorouracil in plasma by gas chromatography-mass spectrometry, 329 (1996) 143

## Fluoroquinolones

Spectrofluorimetric study of the acid-base equilibria and complexation behavior of the fluoroquinolone antibiotics ofloxacin, norfloxacin, ciprofloxacin and pefloxacin in aqueous solution, 354 (1997) 197

### Fluorosensor

Novel fluorescent sensor membranes for alcohols based on p-N,Ndioctylamino-4'-trifluoroacetylstilbene, 351 (1997) 189

Determination of tetracyclines with a modified  $\beta$ -cyclodextrin based fluorosensor, 351 (1997) 205

#### 5-Fluorouracil

Simultaneous determination of 5'-deoxy-5-fluorouridine, 5-fluorouracil and 5,6-dihydro-5-fluorouracil in plasma by gas chromatography-mass spectrometry, 329 (1996) 143

### Fluorouracil

Membrane sensors for the selective determination of fluorouracil, 363 (1998) 81

## Flurbiprofen plastic membrane sensor

Pharmaceutical applications of a flurbiprofen sensor, 311 (1995) 193

### Flutolanil

Development of a competitive enzyme-linked immunosorbent assay based on a monoclonal antibody for a fungicide flutolanil, 376 (1998) 93

### Fly ash

Accurate quantification of quartz and other phases by powder X-ray diffractometry, 337 (1997) 233

Nickel speciation of fly ash by phase extraction, 349 (1997) 121Digestion methods for analysis of fly ash samples by atomic absorption spectrometry, 395 (1999) 157

### FMOC

Derivatization of amines in solid-phase extraction supports with 9fluorenylmethyl chloroformate for liquid chromatography, 344 (1997) 125

Selective purification of synthetic proteins by the use of FMOC- and biotin-based reversible chromatographic probes, 352 (1997) 375.

## Focused microwaves

Continuous microwave assisted pervaporation/atomic fluorescence detection: An approach for speciation in solid samples, 324 (1996) 69

Optimisation of the extraction of arsenic species from mussels with low power focused microwaves by applying a Doehlert design, 364 (1998) 19

A multivariate study of the performance of a microwave-assisted Soxhlet extractor for olive seeds, 382 (1999) 309

#### Focused ultrasounds

Speeding up of a three-stage sequential extraction method for metal speciation using focused ultrasound, 360 (1998) 35

#### Folic acid

Photochemical-fluorimetric determination of folic acid in a multicommutated flow system, 351 (1997) 223

#### Folpet

Resolution of overlapping peaks in HPLC with diode array detection by application of partial least squares calibration to cross-sections of spectrochromatograms, 348 (1997) 177

#### Food

Simultaneous determination of caffeine, theobromine and theophylline in foods and pharmaceutical preparations by using ion chromatography, 371 (1998) 287

A novel method for the determination of vitamin C in natural orange juices by electrochemical monitoring of dediazoniation of 3-methylbenzenediazonium tetrafluoroborate, 385 (1999) 373

### Food additive

Analytical performance of cylindrical carbon fiber microelectrodes in low-permitivity organic solvents: determination of vanillin in ethyl acetate, 385 (1999) 241

## Food analysis

Biosensors for analysis of ethanol in food: effect of the pasting liquid, 319 (1996) 91

A combined sampling and delay unit for flow injection analysis. The automated determination of 2-thiobarbituric acid reactive substances in foods, 322 (1996) 69

Sensitive spectrofluorimetric method for the determination of ethylenediaminetetracetic acid and its salts in foods with zirconium ions and Alizarin Red S in a micellar medium, 329 (1996) 319

Determination of colorant matters mixtures in foods by solid-phase spectrophotometry, 331 (1996) 141

Determination of L-asparagine using flow-injection systems with spectrophotometric and potentiometric detection, 336 (1996) 113

A monoclonal antibody-based ELISA for the analysis of azinphosmethyl in fruit juices, 347 (1997) 95

A monoclonal immunoassay for carbofuran and its application to the analysis of fruit juices, 347 (1997) 103

Determination of naringin in grapefruit juice by cathodic stripping differential pulse voltammetry at the hanging mercury drop electrode, 360 (1998) 179

Enzymatic determinations with rotating bioreactors: Determination of glutamate in food products, 369 (1998) 147

Biosensors for L-malate and L-lactate based on solid binding matrix, 379 (1999) 193

Pesticide determination by stopped-flow fluoroimmunoassay using Cresyl Violet as label, 381 (1999) 147

Analysis of several real matrices using new mono-, bi-enzymatic, or inhibition organic phase enzyme electrodes, 393 (1999) 109

#### Food contact material

Mathematical model for the migration of plasticisers from food contact materials into solid food, 347 (1997) 249

#### Food dyes

Method development and validation for the simultaneous determination of dyes in foodstuffs by capillary zone electrophoresis, 378 (1999) 63

## Food packages

Bisegmented flow system for determination of low concentrations of gaseous constituents in gaseous samples, 393 (1999) 121

#### Food samples

Immobilized enzyme electrode for the determination of L-lactate in food samples, 345 (1997) 37

Simultaneous kinetic determination of butylated hydroxyanisole and propyl gallate by coupling stopped-flow mixing technique and diode-array detection, 354 (1997) 173

### Food-derived peptides

Sample preparation and reversed phase-high performance liquid chromatography analysis of food-derived peptides, 352 (1997) 119

## Foods

Indirect conductometric detection of amino acids after liquid chromatographic separation Part II. determination of monosodium glutamate in foods, 302 (1995) 45

Determination of molybdenum in various materials by normal-phase liquid chromatography using N-benzoyl-N-phenylhydroxylamine, 309 (1995) 157

Sample preparation and reversed phase-high performance liquid chromatography analysis of food-derived peptides, 352 (1997) 119

### Foodstuffs

Determination of cadmium in foodstuffs and plant materials by flow injection-spectrophotometry including ion exchange, 306 (1995) 343

Analytical characterisation and application of a p-benzoquinone mediated amperometric graphite sensor with covalently linked glucoseoxidase, 315 (1995) 101

The validation of methods based on polymerase chain reaction for the detection of genetically modified organisms in food, 393 (1999) 177

### Forensic analysis

Chromogenic reagents for iron(II): studies in the 1,2,4-triazine series, 322 (1996) 203

## Forestry

Determination of diflubenzuron and its main metabolites in forestry matrices by liquid chromatography with on-line diode-array and electrochemical detection, 384 (1999) 63

## Formal complex formation constants

Determination of formal complex formation constants of various Pb<sup>2+</sup> ionophores in the sensor membrane phase, 395 (1999) 41

### Formaldehyde

Rapid detection of \( \ell \)-glutamic acid using a series-electrode piezoelectric quartz crystal sensor, 313 (1995) 229

Determination of formaldehyde in frozen fish with formaldehyde dehydrogenase using a flow injection system with an incorporated gel-filtration chromatography column, 320 (1996) 155

Adsorption voltammetric determination of  $\mu g \ 1^{-1}$  levels formaldehyde via in situ derivatization with Girard's reagent T, 339 (1997) 173

Determination of sub-ppbv levels of formaldehyde in ambient air using Girard's reagent T-coated glass fiber filters and adsorption voltammetry, 349 (1997) 349

Determination of nano-molar levels of formaldehyde in drinking water using flow-injection system with immobilized formaldehyde dehydrogenase after off-line solid-phase extraction, 378 (1999) 169

Field air analysis with SPME device, 400 (1999) 153

## **Formamidines**

Determination of secondary amines as highly fluorescent formamidines by high-performance liquid chromatography, 334 (1996) 45

### Formation constant

Supramolecular inclusion complex formation and application of βcyclodextrin with heteroanthracene ring cationic dyes, 389 (1999) 291

## Formation constant calculation

Formation constant calculation for non-labile complexes based on a labile part of the metal-ligand system. A differential pulse polarographic study at fixed ligand to metal ratio and varied pH: application to polarographically inactive complexes, 319 (1996) 39

## Formetanate determination in water

A clean analytical method for the spectrophotometric determination of formetanate incorporating an on-line microwave assisted hydrolysis step, 390 (1999) 147

### Formic acid

Determination of experimental diffusion coefficients of acetic acid and formic acid vapours in air using a passive sampler, 341 (1997) 1

Automated analysis of low-molecular weight organic acids in ambient air by a microporous tube diffusion scrubber system coupled to ion chromatography, 353 (1997) 227

## Formic acid vapours

A diffusion tube sampler for the determination of acetic acid and formic acid vapours in museum cabinets, 341 (1997) 11

### Formula determination

Elemental composition determination of organophosphorus compounds using gas chromatography and atomic emission spectrometric detection, 340 (1997) 181

#### Formulations

Simple spectrophotometric determination of tinidazole in formulation and serum, 340 (1997) 241

#### Forskolin

Immunoaffinity column chromatography against forskolin using an anti-forskolin monoclonal antibody and its application, 335 (1996) 63

## Forward selection

Selection of variables for interpreting multivariate gas sensor data, 381 (1999) 221

### Four-electrode microvoltammetric

Application of Fourier transform to four-electrode microvoltammetric system for studies on micro-ITIES electroanalysis, 382 (1999) 137

## Fourier filtering

Signal filtering of potentiometric stripping analysis using Fourier techniques, 338 (1997) 167

#### Fourier transform

Study on spectral characterization of infrared flare material combustion with remote high resolution Fourier transform infrared spectrometry, 306 (1995) 249

Vapour generation Fourier transform infrared spectrometry. A new analytical technique, 308 (1995) 28

Solid phase preconcentration-Fourier transform infrared spectrometric determination of carbaryl and 1-naphthol, 314 (1995) 203

Multivariate calibrations in Fourier transform infrared spectrometry for prediction of kerosene properties, 317 (1995) 95

Fourier transform infrared spectroscopy and the analytical study of works of art for purposes of diagnosis and conservation, 330 (1996) 207

Feature reduction by Fourier transform in pattern recognition of NIR data, 331 (1996) 75

Comparison of optimization algorithms for piecewise linear discriminant analysis: application to Fourier transform infrared remote sensing measurements, 331 (1996) 157

Determination of pesticides in water using ATR-FTIR spectroscopy on PVC/chloroparaffin coatings, 334 (1996) 85

Direct vapor generation Fourier transform infrared spectrometric determination of ethanol in blood, 336 (1996) 123

Quantitative Fourier transform infrared spectroscopy of binary mixtures of fatty acid esters using partial least squares regression, 337 (1997) 191

Application of Fourier transform to multivariate calibration of nearinfrared data, 364 (1998) 253

Classification and quantification of polycyclic aromatic hydrocarbons on quartz sand particles by direct Fourier transform imaging fluorescence, 367 (1998) 1

Interreflection errors in Fourier transform spectroscopy: a preliminary appraisal, 380 (1999) 369 Application of Fourier transform to four-electrode microvoltammetric system for studies on micro-ITIES electroanalysis, 382 (1999) 137

#### Fourier transform deconvolution

Optimisation of resolution function in signals ratio method and deconvolution by polynomial division – quantitation of Cd(II) and In(III) from their global signals obtained at carbon fibre disk ultramicroelectrode, 382 (1999) 105

## Fourier transform infrared

Evaluation of extraction alternatives for Fourier transform infrared spectrometric determination of oil and greases in water, 345 (1997) 161

Determination of accelerators and antioxidants in vulcanized rubber by fourier transform infrared spectrophotometry, 353 (1997) 351

Liquid chromatography-Fourier transform infrared spectrometric determination of cholesterol in animal greases, 354 (1997) 97

On-line solvent recycling: a tool for the development of clean analytical chemistry in flow injection Fourier transform infrared spectrometry. Determination of ketoprofen, 361 (1998) 253

Fourier-transform infrared determination of nicotine in tobacco samples by transmittance measurements after leaching with CHCl<sub>3</sub>, 373 (1998) 63

## Fourier transform infrared spectroscopy

Determination of acetaminophen by flow injection with on-line chemical derivatization: Investigations using visible and FTIR spectrophotometry, 364 (1998) 107

Simultaneous determination of α-amylase and amyloglucosidase activities using flow injection analysis with fourier transform infrared spectroscopic detection and partial least-squares data treatment, 366 (1998) 35

Simultaneous determination of enzyme activities by FTIR-spectroscopy in an one-step assay, 391 (1999) 19

## Fourier transform spectroscopy

Fourier transform electrospray ion mobility spectrometry, 334 (1996) 75

The absolute calibration of mid-infrared transmittance standards, 380 (1999) 127

## Fourth derivatives spectroscopy

Fourth derivative spectroscopy - a critical view, 349 (1997) 295

## Fourth-order derivative spectroscopy

Determination of protein and casein in milk by fourth derivative UV spectrophotometry, 393 (1999) 227

## Fraction collection

Analytical and preparative capillary zone electrophoresis of opioid peptides, 383 (1999) 79

## Fractional factorial design

Strategy for ruggedness tests in chromatographic method validation, 391 (1999) 187

### Fractional factorial screening

Sequential injection determination of p-glucose by chemiluminescence using an open tubular immobilised enzyme reactor, 326 (1996) 1

### Fractionation

Characterization of organic matter in fractionated seawater samples using o-nitrophenol as an electrochemical probe, 338 (1997) 179

Adaptation of pulsed-field gel electrophoresis for the improved fractionation of spheres, 372 (1998) 299

Portable fractionation device and screen-printed electrode for measurement of reactive aluminium in environmental samples, 381 (1999) 49

### Fragment code

Computer-assisted IR spectra prediction – linked similarity searches for structures and spectra, 348 (1997) 327

#### Free aluminium

Speciation determination of aluminium (Al<sup>3+</sup>) by flow injection amperometry via the 1,2-dihydroxyanthraquinone-3-sulfonic acid complex, 349 (1997) 111

#### Free electron laser

Analysis of free-electron laser-induced infrared multiphoton dissociation for cholesterol ester, 365 (1998) 193

## Free energy of adsorption

Application of inverse gas chromatography to characterisation of a polypyrrole surface, 363 (1998) 147

### Free fatty acids

An automated flow-reversal injection/liquid-liquid extraction approach to the direct determination of total free fatty acids in olive oils, 318 (1996) 187

Automated flow injection spectrophotometric non-aqueous titrimetric determination of the free fatty acid content of olive oil, 351 (1997) 291

## Free induction decay

Using multivariate methods on solid-state <sup>13</sup>C NMR data of complex materials, 315 (1995) 1

### Free radical

Study of acetaminophen by parallel incident spectroelectrochemistry, 342 (1997) 13

## Free radicals

Voltammetric and spectroscopic studies of the oxidation of the antioxidant drug dipyridamole in acetonitrile and ethanol, 375 (1998) 223

### Free solution

Oligonucleotide analysis by capillary zone electrophoresis at low pH, 345 (1997) 1

### Free sulphur impurities

Determination of microgram amounts of free sulphur in transition metal sulphides using solvent extraction and molecular emission cavity analysis, 327 (1996) 139

## Freely moving rat

Determination of glutathione in vivo by microdialysis using liquid chromatography with a cobalt hexacyanoferrate chemically modified electrode, 391 (1999) 307

## Frequencimetric titration

Theory of the surface acoustic wave/impedance sensor system and its application to the end-point determination in titrimetry, 320 (1996) 245

## Frequency change

Adsorptive determination of copper(II) in solution as its N,Ndiethyldithiocarbamate on an electrode-separated piezoelectric quartz crystal, 343 (1997) 209

#### Fresh water

In-flow speciation of copper, zinc, lead and cadmium in fresh waters by square wave anodic stripping voltammetry Part II. Optimization of measurement step, 305 (1995) 183

Application of photoacoustic spectrometry to flow-injection analysis, 308 (1995) 20

Extraction with 8-quinolinol and mixed anionic additives using ultrasonic irradiation for the catalytic determination of vanadium in freshwaters, 310 (1995) 501

Direct determination of trace concentrations of lead in fresh water samples by adsorptive cathodic stripping voltammetry of a lead-Calcein Blue complex, 316 (1995) 363

Determination of copper speciation in freshwater samples through SPE-spectrophotometry, 343 (1997) 259

The effect of freshwater UV-irradiation prior to resin preconcentration of trace metals, 386 (1999) 155

#### Frechness

Development of ornithine biosensor and application to estimation of prawn freshness, 364 (1998) 159

## β-Fructofuranosidase

Simultaneous determination of enzyme activities by FTIR-spectroscopy in an one-step assay, 391 (1999) 19

### Fructose

Self-driven coulometry of ethanol, d-glucose and d-fructose using ubiquinone-dependent dehydrogenase reactions, 306 (1995) 231

Automatic implementation of the method of standard additions in unsegmented flow systems, 308 (1995) 77

Amperometric flow injection determination of fructose in honey with a carbon paste sensor based on fructose dehydrogenase, 330 (1996) 71

PLS-NIR determination of total sugar, glucose, fructose and sucrose in aqueous solutions of fruit juices, 344 (1997) 41

### Fructose dehydrogenase

Automated determination of lactulose in milk using an enzyme reactor and flow analysis with integrated dialysis, 324 (1996) 37

Amperometric flow injection determination of fructose in honey with a carbon paste sensor based on fructose dehydrogenase, 330 (1996) 71

## Fruit and vegetable juices

Site-specific natural isotope fractionation in fruit juices determined by deuterium NMR An European inter-laboratory comparison study, 321 (1996) 137

Determination of the carbon-13 content of sugars and pulp from fruit juices by isotope-ratio mass spectrometry (internal reference method) A European interlaboratory comparison, 340 (1997) 21

## Fruit juices

Determination of the oxygen-18 and deuterium content of fruit and vegetable juice water An European inter-laboratory comparison study, 302 (1995) 29

Flow-injection chemiluminometric determination of ascorbic acid based on its sensitized photooxidation, 308 (1995) 299

Application of a monoclonal antibody-based ELISA to the determination of carbaryl in apple and grape juices, 311 (1995) 365

Simultaneous determination of aluminium and beryllium at the subnanogram per millilitre level by solid-phase derivative spectrophotometry, 327 (1996) 73

PLS-NIR determination of total sugar, glucose, fructose and sucrose in aqueous solutions of fruit juices, 344 (1997) 41

A monoclonal immunoassay for carbofuran and its application to the analysis of fruit juices, 347 (1997) 103

Evaluation of the dialysing yield of membranes with different composition. Application to the analysis of chloride in fruit juices by flow injection, 353 (1997) 245

Indirect determination of ascorbic acid by solid-phase spectrophotometry, 360 (1998) 143

Flow injection conductimetric or spectrophotometric analysis for acidity in fruit juice, 363 (1998) 199

#### Fruit samples

Evaluation of a highly sensitive amperometric biosensor with low cholinesterase charge immobilized on a chemically modified carbon paste electrode for trace determination of carbamates in fruit, vegetable and water samples, 399 (1999) 37

## Fruit storage

Amperometric gas sensors with detection limits in the low ppb range, 393 (1999) 43

## F-test

Critical evaluation of two F-tests for selecting the number of factors in abstract factor analysis, 337 (1997) 57

### ETID

Fourier transform infrared spectrometry (FTIR) for qualitative and quantitative analysis of azodicarboxamide and its potential impurities, 355 (1997) 7

Microwave-assisted vapour-generation Fourier transform infrared spectrometric determination of carbonate in waters, 358 (1998) 235

Base-activated latent fingerprints fumed with a cyanoacrylate monomer. A quantitative study using Fourier-transform infra-red spectroscopy, 362 (1998) 171

Application of IR spectroscopy and multivariate calibration to monitor the fusion synthesis of Ca- and Ca/Mg-resinates, 391 (1999) 269

Hydrolysis of hemoglobin surveyed by infrared spectroscopy . II. Progress predicted by chemometrics, 396 (1999) 241

## FT-IR measurements

Infrared regular reflectance and transmittance instrumentation and standards at NIST, 380 (1999) 303

## FT-IR spectroscopy

Matching and discrimination of single human-scalp hairs by FT-IR micro-spectroscopy and chemometrics, 392 (1999) 223

### FT-Raman spectrometry

Monitoring of enzyme catalysed reactions by Fourier transform Raman spectrometry, 370 (1998) 191

#### Fuels

Oxygen bomb combustion ion chromatography for elemental analysis of heteroatoms in fuel and wastes development, 315 (1995) 347

#### Fullerene

On-line separation and preconcentration of cadmium, lead and nickel in a fullerene (C<sub>60</sub>) minicolumn coupled to flow injection tungsten coil atomic absorption spectrometry, 368 (1998) 255

### Fullerene (C60)

Adsorption study of organic molecules on fullerene with piezoelectric crystal detection system, 374 (1998) 39

## Fulvic acids

Computational scheme for the prediction of metal ion binding by a soil fulvic acid, 302 (1995) 309

Equilibrium dialysis-ligand exchange: adaptation of the method for determination of conditional stability constants of radionuclidefulvic acid complexes, 303 (1995) 321

Influence of the concentration on the conductimetric properties of a fulvic acid system, 304 (1995) 375

Study of acid-base properties of fulvic acids using fluorescence spectrometry and multivariate curve resolution methods, 310 (1995) 473

Simultaneous use of evolving factor analysis of fluorescence spectral data and analysis of pH titration data for comparison of the acid-base properties of fulvic acids, 318 (1996) 365

Use of fluorescence polarization to probe the structure and aluminum complexation of three molecular weight fractions of a soil fulvic acid, 321 (1996) 113

Classification of binding sites for Al(III) in fulvic acids extracted from leaf litters and soils by synchronous fluorescence spectroscopy and multidimensional chemometric analysis, 333 (1996) 71

Study of the interaction of Al(III) with a soil fulvic acid in the acid pH range by self-modeling mixture analysis of synchronous fluorescence spectral data, 349 (1997) 23

Europium binding by fulvic acids, 369 (1998) 171

Study of soil humic substances by cross-polarization magic angle spinning <sup>13</sup>C nuclear magnetic resonance and pyrolysis-capillary gas chromatography, 378 (1999) 177

Study of the acid-base properties of three fulvic acids extracted from different horizons of a soil, 385 (1999) 443

Applicability of fast-atom bombardment mass spectrometry to the characterization of fulvic acid, 392 (1999) 319

Humic substances' proton-binding equilibria: assessment of errors and limitations of potentiometric data, 392 (1999) 333

Characterization and differentiation of humic acids and fulvic acids in soils from various regions of China by nuclear magnetic resonance spectroscopy, 395 (1999) 199 Effect of the competition of copper and cobalt on the lability of Ni(II)-organic ligand complexes. Part I. In model solutions containing Ni(II) and a well-characterized fulvic acid, 395 (1999) 309

## Functional dye

Molecular design, characterization, and application of multi-information dyes for multi-dimensional optical chemical sensing. Molecular design concepts of the dyes and their fundamental spectral characteristics, 373 (1998) 271

#### **Functional monomer**

Application of indoleacetic acid-imprinted polymer to solid phase extraction, 395 (1999) 251

### Fundamental parameter calculations

Constraints, iteration schemes and convergence criteria for concentration calculations in X-ray fluorescence spectrometry with the use of fundamental parameter methods, 373 (1998) 291

## Fundamental parameter method

X-Ray fluorescence analysis utilizing the fundamental parameter method for the determination of the elemental composition in plant samples, 307 (1995) 117

#### Fungi

The determination of caesium and silver in soil and fungal fruiting bodies by electrothermal atomic absorption spectrometry, 327 (1996) 53

## **Fungicides**

Extension of the bioautograph technique for multiresidue determination of fungicide residues in plants and water, 311 (1995) 423

## 2-Furaldehyde

Liquid chromatographic determination of 2-furaldehyde and 5hydroxymethyl-2-furaldehyde in beer, 306 (1995) 57

### **Furaltadone**

Abilities of differentiation and partial least squares methods in the analysis by differential pulse polarography Simultaneous determination of furazolidone and furaltadone, 302 (1995) 9

Simultaneous determination of sulfadiazine, doxycycline, furaltadone and trimethoprim by partial least squares multivariate calibration, 313 (1995) 103

### Furazolidone

Abilities of differentiation and partial least squares methods in the analysis by differential pulse polarography Simultaneous determination of furazolidone and furaltadone, 302 (1995) 9

## **Furfural determination**

Quality compromises incorporated in simplex optimisation of a flow injection system, 348 (1997) 129

## 2-Furoic acid hydrazide

Acid-base equilibria of 2-furoic acid hydrazide and adipic acid dihydrazide in aqueous-organic media, 306 (1995) 297

#### Furosemide

Electrochemical determination of the loop diuretics piretanide and furosemide in pharmaceutical formulations and urine, 305 (1995) 332

Chemiluminescence flow-injection determination of furosemide based on a rhodamine 6G sensitized cerium(IV) method, 396 (1999) 273

#### Fusion

Determination of nitrogen in uranium-plutonium mixed oxide fuel by gas chromatography after fusion in an inert gas atmosphere, 345 (1997) 131

## **Fusion synthesis**

Application of IR spectroscopy and multivariate calibration to monitor the fusion synthesis of Ca- and Ca/Mg-resinates, 391 (1999) 269

### Fuzzy algorithm

Application of fuzzy clustering and piezoelectric chemical sensor array for investigation on organic compounds, 398 (1999) 219

### Fuzzy hierarchical clustering

A study of Roman pottery (terra sigillata) using hierarchical fuzzy clustering, 310 (1995) 269

### **Fuzzy** logic

A fuzzy filter for removing interferences among membership grade functions An application to pre-treatment of data in olive oil authentication, 312 (1995) 281

## Fuzzy rule building expert system (FuRES)

Classification of pyrolysis mass spectra by fuzzy multivariate rule induction-comparison with regression, K-nearest neighbour, neural and decision-tree methods, 348 (1997) 389

# G

### GABA

Peroxidase based amperometric biosensors for the determination of γ-aminobutyric acid, 328 (1996) 41

Do neurotransmitters sampled by brain microdialysis reflect functional release?, 379 (1999) 263

## GABASE

Peroxidase based amperometric biosensors for the determination of γ-aminobutyric acid, 328 (1996) 41

## GABA-T

Peroxidase based amperometric biosensors for the determination of  $\gamma$ -aminobutyric acid, 328 (1996) 41

### Gadolinium

Studies on monoxide emission spectrometry of rare-earth elements.
IV. Simultaneous determination of Sm, Eu, Gd in Sm-Eu-Gd concentrates by the dual wavelength method, 350 (1997) 365

Room temperature phosphorescence emission in fully aqueous medium induced by injection of hot electrons into an electrolyte solution, 355 (1997) 1

#### Galactose

On-line monitoring of galactoside conjugates and glycerol by flow injection analysis, 373 (1998) 57

#### Galactose oxidase

On-line monitoring of galactoside conjugates and glycerol by flow injection analysis, 373 (1998) 57

#### Galactosidase

Immunosensing with amperometric detection, using galactosidase as label and p-aminophenyl-β-d-galactopyranoside as substrate, 304 (1995) 353

## β-Galactosidase

Automated determination of lactulose in milk using an enzyme reactor and flow analysis with integrated dialysis, 324 (1996) 37

Reagentless amperometric biosensors highly sensitive to hydrogen peroxide, glucose and lactose based on N-methyl phenazine methosulfate incorporated in a Nafion film as an electron transfer mediator between horseradish peroxidase and an electrode, 344 (1997) 187

Amperometric biosensor sensitive to glucose and lactose based on co-immobilization of ferrocene, glucose oxidase, β-galactosidase and mutarotase in β-cyclodextrin polymer, 358 (1998) 137

Enzyme-linked immunosorbent assay for plasma 24,25-dihydroxyvitamin D<sub>3</sub>, 365 (1998) 151

Hybrid biosensors to estimate lactose in milk, 349 (1997) 153

### Galanthamine

Flow injection determination of neostigmine and galanthamine by immobilised acetylcholinesterase inhibition, 372 (1998) 379

### Gallic acid

Determination of gallic acid by an oscillating chemical reaction using the analyte pulse perturbation technique, 321 (1996) 53

Simultaneous determination of gallic acid and resorcinol based on an oscillating chemical reaction by the analyte pulse perturbation technique, 334 (1996) 323

Application of gallic acid and xanthene dyes for determination of ozone in air with a chemiluminescence aerosol detector, 374 (1998) 297

### Gallium

Selective preconcentration of gallium using Muromac A-1 ion exchange column, 318 (1995) 113

Determination of trace gallium by derivative adsorption chronopotentiometry, 318 (1996) 181

Trace element characterization of high purity gallium, 318 (1996)

Liquid-liquid extraction of iron(III) and gallium(III) with macrocyclic Schiff bases containing bisphenol A subunits, 319 (1996)

On the suppression of zinc-copper interactions in square wave anodic stripping voltammetry in flowing solution by addition of gallium ions, 339 (1997) 167

- Trace element profile of semiconductor materials: Gallium and arsenic, 370 (1998) 91
- Determination of gallium by graphite furnace atomic absorption spectrometry with combined use of a tungsten-coated L'vov platform tube and a chemical modification technique, 390 (1999) 201

## Gallium complexes

Potentiometric study of the equilibria between triethylenetetraminehexaacetic acid and H(I), Mn(II), La(III) and Ga(III) in aqueous solution, 367 (1998) 261

## Gamma cascades

Multielement instrumental activation analysis based on gammagamma coincidence spectroscopy, 386 (1999) 181

#### Gamma spectroscopy

Multielement instrumental activation analysis based on gammagamma coincidence spectroscopy, 386 (1999) 181

#### Gangliosides

Characterization of gangliosides by two-dimensional high-performance thin-layer chromatography, 311 (1995) 57

#### Ganoderma australe

Pyrolysis-gas chromatography-mass spectrometry characterization of wheat straw alkaline-cooking effluents after biological treatment with the fungi Phanerochaete chrysosporium and Ganoderma australe, 309 (1995) 145

#### Gas analysis

- Quantitative millimetre wave spectrometry. Part I: design and implementation of a tracked millimetre wave confocal Fabry-Perot cavity spectrometer for gas analysis, 311 (1995) 99
- The uncertainty of carbon dioxide determination in gaseous mixtures, 318 (1996) 327

## Gas chromatography

- Simultaneous micro steam distillation/solvent extraction for the isolation of semivolatile flavor compounds from cinnamon and their separation by series coupled-column gas chromatography, 302 (1995) 147
- Determination of didealkylatrazine in water by graphitized carbon black extraction followed by gas chromatography-high resolution mass spectrometry, 304 (1995) 67
- Supercritical fluid extraction of butyltin compounds from sediment, 304 (1995) 85
- An automated instrument for the analysis of atmospheric dimethyl sulfide and carbon disulfide, 306 (1995) 259
- Simultaneous determination of sterols in edible oils by use of a continuous separation module coupled to a gas chromatograph, 308 (1995) 253
- Applicability of a novel carbon sorbent for the preconcentration of volatile chlorinated hydrocarbons, 309 (1995) 181
- Investigation into variations in the isomer content within the nitroaromatic component in nitroglycerine-based explosives by gas chromatography with flame ionisation detection, 309 (1995) 189
- Water quality control in the production of drinking water from river water. The application of immunological techniques for the

- detection of chlorophenoxy acid herbicides (2,4-D), 311 (1995) 407
- Multivariate statistical analysis characterization of applicationbased ion mobility spectra, 316 (1995) 1
- Determination of volatile sulfur compounds in water samples, beer and coffee with purge and trap gas chromatography-microwaveinduced plasma atomic emission spectrometry, 316 (1995) 93
- Determination of pyrethroid insecticides by ion trap GC-MS-MS, 317 (1995) 137
- Transport of organochlorine pesticides across the air/sea interface during the aerosol process, 317 (1995) 149
- Evaluation of sample preparation methods for organotin speciation analysis in sediments - focus on monobutyltin extraction, 317 (1995) 161
- On-line sample handling strategies for the trace-level determination of pesticides and their degradation products in environmental waters, 318 (1995) 1
- Improvement of extraction recovery for the monobutyltin species from sediment, 320 (1996) 165
- Selection of molecular descriptors used in quantitative structure-gas chromatographic retention relationships II. Isoalkanes and alkenes, 323 (1996) 15
- Knowledge base generation for the GCdiagnosis system, 324 (1996)
- Intercomparison of alkyllead compound determination in mussels and water by two analytical techniques: gas chromatography atomic absorption spectrometry and differential pulse anodic stripping voltammetry, 326 (1996) 57
- Metallomesogens as stationary phases for ligand exchange gas chromatography - Part I. The use of nickel and zinc complexes of 4-decanoxydithiobenzoic acid for the separation of polycyclic aromatic hydrocarbons and dialkyl sulfides, 332 (1996) 23
- Microwave-accelerated speciation analysis for butylin compounds in sediments and biomaterials by large volume injection capillary gas chromatography quartz furnace atomic absorption spectrometry, 332 (1996) 225
- Determination of organomercury compounds in aqueous samples by capillary gas chromatography-atomic fluorescence spectrometry following solid-phase extraction, 334 (1996) 251
- Determination of dimethoate and fenitrothion in estuarine samples by C-18 solid-phase extraction and high-resolution gas-chromatography with nitrogen-phosphorus detection, 335 (1996) 51
- The identification of an unusual volatile component in processed tobacco by gas chromatography with mass spectrometry and atomic emission detection, 335 (1996) 253
- Evaluation of gas chromatography with a flame photometric detector based on quartz surface-induced emission for determining the speciation of inorganic and methylgermanium compounds, 337 (1997) 83
- Evaluation of derivatization techniques for the analysis of organotin compounds in biological tissue, 338 (1997) 51
- Analysis of pyraclofos in crops by the Swedish National Food Administration gas chromatographic multiresidue methodology, 338 (1997) 63
- Elemental composition determination of organophosphorus compounds using gas chromatography and atomic emission spectrometric detection, 340 (1997) 181

- Evaluation of transition metal complexes of aminopropylsilyldithiooxamide bonded phases for gas chromatography, 341 (1997) 35
- Prediction of gas chromatographic retention indices of alkylbenzenes, 342 (1997) 113
- Chemical characterization by pyrolysis/gas chromatography/mass spectrometry of acid-precipitable polymeric lignin (APPL) from wheat straw transformed by selected streptomyces strains, 345 (1997) 121
- Determination of nitrogen in uranium-plutonium mixed oxide fuel by gas chromatography after fusion in an inert gas atmosphere, 345 (1997) 131
- Supercritical fluid extraction combined on-line with cold-trap gas
- chromatography/mass spectrometry, 346 (1997) 81 Determination of bisphenol A (BPA) in water by gas chromato-
- graphy-mass spectrometry, 346 (1997) 87

  Analyzing time varying flow composition using multiple input chromatography, 348 (1997) 203
- Modelling of gas chromatographic retention indices using counterpropagation neural networks, 348 (1997) 215
- Effects of parameters on microwave assisted extraction of triazines from soil: evaluation of an optimisation trajectory, 348 (1997) 247
- Two methods for the speciation analysis of mercury in fish involving microwave-assisted digestion and gas chromatography-atomic emission spectrometry, 350 (1997) 273
- Large-volume injection in gas chromatography-ion trap tandem mass spectrometry for the determination of pesticides in the marine environment at the low ng/l level, 353 (1997) 153
- Automation of gas chromatography instruments. Part I. Automated peak identification in the chromatograms of standard test mixtures, 354 (1997) 65
- Automation of gas chromatography instruments. Part II. A knowledge-based system for performance assessment, 354 (1997)
- Microextraction procedures combined with large volume injection in capillary gas chromatography for the determination of pesticide residues in environmental aqueous samples, 356 (1997) 125
- Gas chromatographic analysis of pesticides in water with off-line solid phase extraction, 356 (1997) 155
- Gas chromatographic determination of aldehydes in combustion smoke samples, 358 (1998) 269
- Novel instrumentation for determination of ethanol concentrations in human perspiration by gas chromatography and a good interrelationship between ethanol concentrations in sweat and blood, 365 (1998) 259
- Authentication of green coffee varieties according to their sterolic profile, 370 (1998) 131
- Gas chromatography-atomic emission detection for quantification of polycyclic aromatic sulfur heterocycles, 376 (1998) 265
- Determination of bromate at parts-per-trillion levels by gas chromatography-mass spectrometry with negative chemical ionization, 377 (1998) 53
- Iminoketonate complexes of Cu(II) chemically bonded to silica in gas chromatography, 378 (1999) 101
- Authentication and differentiation of irish whiskeys by higheralcohol congener analysis, 381 (1999) 257

- Comparison of AFS and ICP-MS detection coupled with gas chromatography for the determination of methylmercury in marine samples, 390 (1999) 245
- Determination of organometallic forms of mercury, tin and lead by in situ derivatization, trapping and gas chromatography – atomic emission detection, 394 (1999) 259

### Gas chromatography-atomic absorption spectrometry

Determination of inorganic and organic mercury compounds by capillary gas chromatography coupled with atomic absorption spectrometry after preconcentration on dithizone-anchored poly(ethylene glycol dimethacrylate-hydroxyethylmethacrylate) microbeads, 371 (1998) 177

### Gas chromatography-mass spectrometry

- Analysis and characterisation of nitroglycerine-based explosives by gas chromatography-mass spectrometry, 307 (1995) 89
- Pyrolysis-gas chromatography-mass spectrometry characterization of wheat straw alkaline-cooking effluents after biological treatment with the fungi Phanerochaete chrysosporium and Ganoderma australe, 309 (1995) 145
- Optimization of supercritical fluid extraction for polychlorinated biphenyls from sediments, 310 (1995) 93
- Determination of nitrobenzenes in river water, sediment and fish samples by gas chromatography-mass spectrometry, 312 (1995) 45
- Analysis of plastic recycling products by expert systems, 312 (1995)
- Gas chromatography-mass spectrometry determination of triclosans in water, sediment and fish samples via methylation with diazomethane, 325 (1996) 175
- Simultaneous determination of 5'-deoxy-5-fluorouridine, 5-fluorouracil and 5,6-dihydro-5-fluorouracil in plasma by gas chromatography-mass spectrometry, 329 (1996) 143
- Principal component analysis for resolving coeluting substances in gas chromatography-mass spectrometry doping control analysis, 331 (1996) 53
- Biomarkers of toluene diisocyanate and thermal degradation products of polyurethane, with special reference to the sample preparation, 333 (1996) 277
- Use of analytical pyrolysis for the characterization of paper industry effluents, 335 (1996) 245
- Detection and identification of thyreostats in the thyroid gland by gas chromatography-mass spectrometry, 340 (1997) 201
- Detection of more than 50 substituted phenols as their t-butyldimethylsilyl derivatives using gas chromatography-mass spectrometry, 341 (1997) 21

### Gas dialysis

- Selective determination of gas dialysable components in complex sample solutions using triangle programmed coulometric titration in continuous flow systems., 324 (1996) 115
- Selective flow injection procedures for the determination of nitrogen containing analytes by gasdialytic-fluorimetric detection of enzymatically generated ammonia, 325 (1996) 93

## Gas diffusion

Efficiency and response studies on gas diffusion manifolds in flowinjection systems, 308 (1995) 206 On-line flow injection monitoring of ammonia in industrial liquid effluents, 314 (1995) 33

Gas diffusion techniques coupled sequential injection analysis for selective determination of ammonium, 318 (1996) 251

Determination of arsenic by hydride generation gas diffusion flow injection analysis with electrochemical detection, 334 (1996) 193

Study of equilibria in cyanide systems by gas-diffusion measurement of hydrogen cyanide, 336 (1996) 131

Calibration methods for determination of ammonium and excess acid in Kjeldahl digests by flow injection analysis, 343 (1997) 183

Determination of cyanide as tetracyanonickelate(II) by flow injection and spectrophotometric detection, 357 (1997) 103

Comparison of various peak evaluation techniques for limited and extended dynamic ranges in flow injection systems, 364 (1998) 97

#### Gas flow-rate

Effects of gas flow-rates on a Clark-type oxygen gas sensor, 313 (1995) 89

## Gas permeation

Determination of volatile arsenicals in ambient air by flow injection, 338 (1997) 215

### Gas phase

A thermistor as a sensor in gas phase flow injection analysis, 366 (1998) 5

## Gas phase molecular absorption spectrometry

Determination of dimethylarsinic acid by hydride generation gas phase molecular absorption spectrometry, 343 (1997) 39

Determination of monomethylarsenous acid by hydride generation gas phase molecular absorption spectrometry, 381 (1999) 331

## Gas sampling

Spectrophotometric determination of ozone in ozonized air currents with chemical gas-liquid transfer using a microreactor, 380 (1999) 93

## Gas sensor array

On-line monitoring of a cultivation using an electronic nose, 361 (1998) 223

## Gas sensors

New hydrophobic materials for optical carbon dioxide sensors based on ion pairing, 302 (1995) 249

Enhanced selectivity of MOSFET gas sensors by systematical analysis of transient parameters, 353 (1997) 291

Gas sensing based on the dynamic nonlinear responses of a semiconductor gas sensor: dependence on the range and frequency of a cyclic temperature change, 361 (1998) 93

Dyeless optical detection of ammonia in the gas phase using pHresponsive polymers with reflectometric interference spectroscopy, 372 (1998) 333

A study of hydrogen detection with palladium modified porous silicon, 375 (1998) 205

Selection of variables for interpreting multivariate gas sensor data, 381 (1999) 221

New potentiometric gas-gap sensor, 385 (1999) 137

Electrochemical sensors with solid polymer electrolytes, 385 (1999) 151

Solid-state microelectrode oxygen sensors, 388 (1999) 51

## Gas-chromatographic detector

Preparation and application of cryptand-coated piezoelectric crystal gas-chromatographic detector, 360 (1998) 61

#### Gas-diffusion cell

Determination of sulphite in wines by gas-diffusion flow injection analysis utilizing spectrophotometric pH-detection, 337 (1997) 125

## **Gas-diffusion separation**

A novel gas-diffusion/flow-injection system coupled with a bulk acoustic wave impedance sensor for total inorganic carbonate and its application to determination of total inorganic and total organic carbon in waters, 349 (1997) 143

## Gaseous samples

Determination of CO<sub>2</sub> in gaseous samples using a monosegmented flow system and conductimetric detection, 366 (1998) 223

Bisegmented flow system for determination of low concentrations of gaseous constituents in gaseous samples, 393 (1999) 121

#### Gases

Electrochemical response to  $H_2$ ,  $O_2$ ,  $CO_2$  and  $NH_3$  of a solid-state cell based on a cation- or anion-exchange membrane serving as a solid polymer electrolyte, 310 (1995) 139

## **Gasification process**

Study on  $S_2$  emission response from sulphones and sulphonic acids in molecular emission cavity analysis, 315 (1995) 371

## Gas-liquid chromatography

Temperature effect on the characteristic solute-solvent retention interactions, calculated with Abraham's solvation model, for 16 GLC stationary phases, 377 (1998) 71

## Gasoline

On-line remote prediction of gasoline properties by combined optical methods, 339 (1997) 193

Voltammetric determination of trace platinum in gasoline after Wickbold combustion, 350 (1997) 135

Qualitative and quantitative determination of oxygenates in gasolines using <sup>1</sup>H nuclear magnetic resonance spectroscopy, 391 (1999) 277

## Gas-phase molecular absorption spectrometry

Determination of thiocyanate by carbonyl sulphide (OCS) generation and gas-phase molecular absorption spectrometry, 318 (1996) 377

## Gas-phase tautomeric equilibrium constants

Application of semiempirical method (AM1) to the study of tautomeric equilibria in the gas phase for simple compounds containing the amidine group: 4(5)-substituted imidazoles, 348 (1997) 431

#### Gasses

Numerical approach to the explanation of the response time of the Severinghaus type electrode, 316 (1995) 83

#### Gaussian

Simulation of chromatographic peaks by simple functions, 312 (1995) 263

#### GC

Characterization of fatty acids composition in vegetable oils by gas chromatography and chemometrics, 358 (1998) 163

#### GC detector

Application of piezoelectric Ru(III)/cryptand-coated quartz crystal gas chromatographic detector for olefins, 380 (1999) 55

## GC/CI-MS (SIM)

Total microcystin determination using erythro-2-methyl-3-(meth-oxy-d<sub>3</sub>)-4-phenylbutyric acid (MMPB-d<sub>3</sub>) as the internal standard, 386 (1999) 107

#### GC/FCD

Analysis of soil and dust samples for polychlorinated biphenyls by enzyme-linked immunosorbent assay (ELISA), 376 (1998) 67

A new derivatization reagent 2-(pentafluorophenoxy)ethyl 2-(piperidino)ethanesulfonate for gas chromatography, 386 (1999)

## GC/MS

Confirmation and method development for dechlorinated atrazine from reductive dehalogenation of atrazine with Fe<sup>0</sup>, 373 (1998) 153

# GC-AEO analysis

Acidic and non-acidic products from the photo-oxidation of the crude oil component dibenzothiophene dissolved in seawater, 392 (1999) 19

# GC diagnosis system

Knowledge base generation for the GCdiagnosis system, 324 (1996) 85

#### GCE

Square-wave adsorptive stripping voltammetry at glassy carbon electrode for selective determination of manganese. Application to some industrial samples, 370 (1998) 239

## GC-ICP/MS

Sampling and probing volatile metal(loid) species in natural waters by in-situ purge and cryogenic trapping followed by gas chromatography and inductively coupled plasma mass spectrometry (P-CT-GC-ICP/MS), 377 (1998) 241

#### CC-MS

Determination of PAHs in river water samples by ELISA, 376 (1998) 49

Degradation of cellulosic materials under the alkaline conditions of a cementitious repository for low and intermediate level radioactive waste. Part I: Identification of degradation products, 398 (1999) 111

## Ge

Determination of Ge, As, Se, Cd and Pb in plant materials by slurry sampling-electrothermal vaporization-inductively coupled plasma-mass spectrometry, 372 (1998) 365

#### Gel

Performance characteristics for the measurement of Cs and Sr by diffusive gradients in thin films (DGT), 368 (1998) 243

# Gel electrophoresis

Procedures leading to primary structure determination of proteins in complex mixtures by gel electrophoresis and modern microscale analyses, 372 (1998) 21

Gel electrophoresis for studying biological function, 372 (1998)

Gel electrophoresis of proteolytic enzymes, 372 (1998) 173

Evaluation of commonly used electrophoretic methods for the analysis of proteins and peptides and their application to biotechnology, 383 (1999) 47

#### Gel formation

Solvent extraction of yttrium from chloride media by di(2-ethylhexyl)phosphoric acid in kerosene. Speciation studies and gel formation, 327 (1996) 267

## Gel permeation chromatography

On-line multicomponent determination of organic compounds in water following gel permeation chromatographic separation, 319 (1996) 165

Size fractionation of humic substances: Effect on protonation and metal binding properties, 334 (1996) 27

Determination of alkylated polystyrene pour point depressant by preparative gel permeation chromatography, infrared spectrometry and nuclear magnetic resonance spectrometry, 373 (1998)

## Gel, sieving by

Adaptation of pulsed-field gel electrophoresis for the improved fractionation of spheres, 372 (1998) 299

#### Gel, structure of

Adaptation of pulsed-field gel electrophoresis for the improved fractionation of spheres, 372 (1998) 299

## Gel, trapping by

Adaptation of pulsed-field gel electrophoresis for the improved fractionation of spheres, 372 (1998) 299

#### Gelatin

Humidity-sensitive optode membrane based on a fluorescent dye immobilized in gelatin film, 378 (1999) 127

## Gelatin membrane

Reverse-phase optode. Design and characterization of an organic acid-selective optode membrane based on fluorescein sodium, 322 (1996) 99

#### Gelatin/PAGE

Gel electrophoresis of proteolytic enzymes, 372 (1998) 173

#### Gelfiltration

Comparison of microscale cleaning procedures for (Glyco) proteins prior to positive ion matrix-assisted laser desorption ionization mass spectrometry, 372 (1998) 187

#### Gene fusion

Fluorescence binding assay for a small peptide based on a GFP fusion protein, 397 (1999) 279

## General method

General equation for determining the dissociation constants of polyprotic acids and bases from additive properties. Part II. Applications, 390 (1999) 267

## Generalized H-point standard additions method

Generalized H-point standard additions method for analyte determinations in unknown samples, 302 (1995) 323

A new derivatization procedure for the determination of cephalexin with 1,2-naphthoquinone 4-sulphonate in pharmaceutical and urine samples using solid-phase extraction cartridges and UV-visible detection, 370 (1998) 115

#### Generalized standard addition method

Generalized standard addition in flow-injection analysis with UVvisible photodiode array detection, 304 (1995) 229

## Generation of H+ and D+, H2Pd and D2Pd electrodes

Application of hydrogen-palladium and deuterium-palladium electrodes in the coulometric-potentiometric determination of bases in some dipolar aprotic solvents, 318 (1996) 287

# Genetic algorithms

Further investigation on a comparative study of simulated annealing and genetic algorithm for wavelength selection, 311 (1995) 1

Determination of stability constants using genetic algorithms, 316 (1995) 347

Comparison of optimization algorithms for piecewise linear discriminant analysis: application to Fourier transform infrared remote sensing measurements, 331 (1996) 157

Genetic-algorithm-based wavelength selection in multicomponent spectrometric determinations by PLS: application on indomethacin and acemethacin mixture, 339 (1997) 63

Prediction of gas chromatographic retention indices of alkylbenzenes, 342 (1997) 113

Learning classification rules from an ion chromatography database using a genetic based classifier system, 344 (1997) 1

Evaluation of natural computation techniques in the modelling and optimization of a sequential injection flow system for colorimetric iron(III) determination, 348 (1997) 143

Clustering data using a modified integer genetic algorithm (IGA), 354 (1997) 263

Application of Fourier transform to multivariate calibration of nearinfrared data, 364 (1998) 253

Qualitative and quantitative aspects of the application of genetic algorithm-based variable selection in polarography and stripping voltammetry, 378 (1999) 245

Optimisation of structure representation for QSAR studies, 388 (1999) 243

The quality of optimisation by genetic algorithms, 388 (1999) 265

## Genetically modified organisms

The validation of methods based on polymerase chain reaction for the detection of genetically modified organisms in food, 393 (1999) 177

## Genosensor technology

Genosensor technology and the detection of interfacial nucleic acid chemistry, 346 (1997) 259

#### Gentisic acid

Derivative linear variable-angle scanning fluorescence spectrometry for the determination of closely overlapping drug mixtures, 319 (1996) 361

#### Geochemical reference samples

Simultaneous determination of neodymium and samarium in silicate rocks and minerals by isotope dilution inductively coupled plasma mass spectrometry: Results on twenty geochemical reference samples, 351 (1997) 325

## Geological materials

Spectrographic determination of gold in geological materials after preconcentration on Spheron-Thiol, 320 (1996) 145

Determination of scandium in geological materials, rare earth minerals and niobate/tantalate-type of samples by inductively coupled plasma atomic emission spectrometry after solvent extraction/acid hydrolysis separation, 376 (1998) 273

Separation and preconcentration of uranium from geological materials with chelating resin containing 4-(2-thiazolylazo)resorcinol functional groups, 382 (1999) 199

# Geological samples

Simultaneous determination of aluminium and beryllium at the subnanogram per millilitre level by solid-phase derivative spectrophotometry, 327 (1996) 73

Chemical speciation study of platinum group elements in geological samples by stepwise dissolution and inductively coupled plasma mass spectrometry, 374 (1998) 93

Determination of bismuth, indium and lead in geological and seawater samples by electrothermal atomic absorption spectrometry with nickel-containing chemical modifiers, 382 (1999) 329

# Geological Survey of Japan rock reference samples

Extraction of lithium from GSJ rock reference samples and determination of their lithium isotopic compositions, 340 (1997) 221

## Geometric tolerances

Study of the dependency of spectral radiance factor and colorimetric values on geometric tolerances, 380 (1999) 363

# Geothermal fluids

Automatic determination of iron in geothermal fluids containing high dissolved sulfur-compounds using flow injection electrothermal atomic absorption spectrometry with an on-line microwave radiation precipitation-dissolution system, 366 (1998) 295

#### Germanate

Interference from chromate, germanate, tungstate and vanadate when determining phosphate in aqueous solution by the phosphoantimonylmolybdenum blue method, 358 (1998) 245

#### Germanium

Determination of germanium(IV) in sulphide ores by differential pulse polarography in pyrogallol-sulfuric acid media, 306 (1995) 243

Determination of germanium(IV) by catalytic cathodic stripping voltammetry, 309 (1995) 89

Adsorptive complex catalytic polarographic determination of germanium in soils and vegetables, 309 (1995) 103

Interference-free atomic spectrometric method for the determination of trace amounts of germanium by utilizing the vaporization of germanium tetrachloride, 330 (1996) 237

Determination of germanium by isotope dilution-hydride generation inductively coupled plasma mass spectrometry, 332 (1996) 277

Selective adsorbents for germanium(IV) derived from chitosan, 343 (1997) 275

Electrothermal atomization laser-excited atomic fluorescence spectrometry for direct analysis of germanium in water and blood samples, 350 (1997) 231

Selective separation of germanium(IV) by 2,3-dihydroxypropyl chitosan resin, 371 (1998) 187

Optimization of hydride generation atomic fluorescence spectrometry for the determination of trace amounts of germanium: emphasis on acidity and interferences, 373 (1998) 303

Comparative study to evaluate the effect of different acids on the determination of germanium by hydride generation-inductively coupled plasma atomic emission spectrometry, 376 (1998) 283

## Germanium tetrachloride

Interference-free atomic spectrometric method for the determination of trace amounts of germanium by utilizing the vaporization of germanium tetrachloride, 330 (1996) 237

#### **GFAAS**

Analysis and storage of samples for chromium determination in seawater, 356 (1997) 35

Introduction of hydrogen peroxide as an oxidant in flow injection analysis: speciation of Cr(III) and Cr(VI), 361 (1998) 125

Use of 4-(2-pyridylazo)resocinol or 2-(2-pyridylazo)-5-dimethylaminophenol as chelating agent for determination of cadmium in seawater by atomic absorption spectrometry with on-line flowinjection sorbent extraction, 376 (1998) 305

#### GFP

Fluorescence binding assay for a small peptide based on a GFP fusion protein, 397 (1999) 279

#### Gibberelin

Rapid spectrofluorimetric method for traces of gibberelin, 346 (1997) 249

## Gibbs-Donnan model

Sorption of divalent metal ions on an iminodiacetic resin from artificial seawater, 346 (1997) 381

# Girard's reagent T

Adsorption voltammetric determination of μg 1<sup>-1</sup> levels formaldehyde via in situ derivatization with Girard's reagent T, 339 (1997) 173

Determination of sub-ppbv levels of formaldehyde in ambient air using Girard's reagent T-coated glass fiber filters and adsorption voltammetry, 349 (1997) 349

#### Glass electrode

A computer program GEZ for determination of the equivalence point of the acid-base titration and E<sub>0</sub> of the glass electrode, 331 (1996) 23

#### Glass supports

Evaluating the quality of oligonucleotides that are immobilized on glass supports for biosensor development, 395 (1999) 273

## Glassy carbon

Mercury nucleation on glassy carbon electrodes, 346 (1997) 157

## Glassy carbon electrode

Electrochemical studies of ethamivan at glassy-carbon and platinum electrodes and its determination in urine by differential pulse voltammetry, 336 (1996) 85

Simultaneous determination of traces of iron(II) and iron(III) using differential pulse anodic stripping voltammetry in a flow-through configuration on a glassy carbon electrode, 376 (1998) 325

Amperometric determination of epinephrine with an osmium complex and Nafion double-layer membrane modified electrode, 378 (1999) 151

Electrochemical oxidation of NADH at a bare glassy carbon electrode in different supporting electrolytes, 385 (1999) 345

A sensitive voltammetric method for the determination of parathion insecticide, 396 (1999) 39

#### Gliadins

Isoelectric focusing of proteins and peptides in gel slabs and in capillaries, 372 (1998) 1

## Global analysis

Data analysis techniques for monitoring excited state kinetics, 348 (1997) 311

Second order global analysis: the evaluation of series of spectrophotometric titrations for improved determination of equilibrium constants, 353 (1997) 381

## Global electrochemical sensor

Optimisation of resolution function in signals ratio method and deconvolution by polynomial division – quantitation of Cd(II) and In(III) from their global signals obtained at carbon fibre disk ultramicroelectrode, 382 (1999) 105

## Global resolution functions

Evaluation of several global resolution functions for liquid chromatography, 396 (1999) 61

#### Globulir

New method of simultaneous and non-destructive determination of human serum albumin and globulin, 316 (1995) 387

Spectral study of interaction of thymol blue with protein in acidic solution, 341 (1997) 97

#### Glow discharge

Detection of fluorine emission lines from Grimm-type glow-discharge plasmas - use of neon as the plasma gas, 324 (1996) 147 Selection of self-absorption free analytical lines of aluminum in glow discharge optical emission spectrometry, 343 (1997) 267

Elemental analysis of powders by glow discharge mass spectrometry, 395 (1999) 165

## Glow discharge mass spectrometry

The relationship between relative sensitivity factors and ionization potential in dc glow discharge mass spectrometry using Ar/0.2 vol.% H<sub>2</sub> mixture, 355 (1997) 129

#### Glow-discharge emission spectrometry

Effect of oxygen addition to an argon glow-discharge plasma source in atomic emission spectrometry, 306 (1995) 193

# Glucan 1,4-a-glucanohydrolase

Simultaneous determination of  $\alpha$ -amylase and amyloglucosidase activities using flow injection analysis with fourier transform infrared spectroscopic detection and partial least-squares data treatment, 366 (1998) 35

# Glucan 1,4-a-glucosidase

Simultaneous determination of enzyme activities by FTIR-spectroscopy in an one-step assay, 391 (1999) 19

## Glucoamylase structure and immunology

Electrophoresis and isoelectrofocusing coupled with agar diffusion for the characterization of antibodies and enzymes, 383 (1999) 127

#### Glucose

Properties of carbon fibre microelectrodes as a basis for enzyme biosensors, 303 (1995) 275

Development of a bio-thermochip and its application for the detection of glucose in urine, 303 (1995) 295

Internal enzyme fiber-optic biosensors for hydrogen peroxide and glucose, 304 (1995) 147

Amperometric glucose biosensor manufactured by a printing technique, 304 (1995) 157

Remarkably selective metallized-carbon amperometric biosensors, 305 (1995) 3

A glucose sensor, interference free for ascorbic acid, 305 (1995) 18 β-Cyclodextrin cation exchange polymer membrane for improved second-generation glucose biosensors, 306 (1995) 201

Self-driven coulometry of ethanol, d-glucose and d-fructose using ubiquinone-dependent dehydrogenase reactions, 306 (1995) 231

Automatic implementation of the method of standard additions in unsegmented flow systems, 308 (1995) 77

Sequential enzymatic monitoring of glucose, ethanol and glutamate in bioreactor fermentation broth containing a high salt concentration by a multi-channel flow-injection analysis method, 308 (1995) 145

Thin film bienzyme amperometric biosensors based on polymeric redox mediators with electrostatic bipolar protecting layer, 311 (1995) 15

Simultaneous monitoring of glucose, lactic acid and penicillin by sequential injection analysis, 312 (1995) 149

Development of a needle-type biosensor for intravascular glucose monitoring, 313 (1995) 45

Direct and simultaneous determination of uric acid and glucose in serum with electrochemical filter/biosensor flow-injection analysis system, 315 (1995) 137

Characterization and application of an on-line flow injection analysis/wall-jet electrode system for glucose monitoring during fermentation, 317 (1995) 223

Fibre optic biosensor for the determination of D-glucose based on absorption changes of immobilized glucose oxidase, 319 (1996) 103

On-line monitoring of glucose and penicillin by sequential injection analysis, 320 (1996) 199

Glucose-sensitive ion-sensitive field-effect transistor-based biosensor with additional positively charged membrane Dynamic range extension and reduction of buffer concentration influence on the sensor response, 322 (1996) 77

Fabrication and application of a diamond-film glucose biosensor based on a H<sub>2</sub>O<sub>2</sub> microarray electrode, 327 (1996) 133

Electroluminescent detection of enzymatically generated hydrogen peroxide, 327 (1996) 253

Whole cell amperometric biosensor based on Aspergillus niger for determination of glucose with enhanced upper linearity limit, 331 (1996) 225

Diffusion restricting outer membranes for greatly extended linearity measurements with glucose oxidase enzyme electrodes, 333 (1996) 223

Whole blood glucose determination using glucose oxidase immobilized on cotton cheese cloth, 338 (1997) 135

Flow injection amperometric and chemiluminescence individual and simultaneous determination of lysine and glucose with immobilized lysine oxidase and glucose oxidase, 338 (1997) 149

Ferrocenyl silicon-based dendrimers as mediators in amperometric biosensors, 338 (1997) 191

PLS-NIR determination of total sugar, glucose, fructose and sucrose in aqueous solutions of fruit juices, 344 (1997) 41

Reagentless amperometric biosensors highly sensitive to hydrogen peroxide, glucose and lactose based on N-methyl phenazine methosulfate incorporated in a Nafion film as an electron transfer mediator between horseradish peroxidase and an electrode, 344 (1997) 187

Design and development of a miniaturised total chemical analysis system for on-line lactate and glucose monitoring in biological samples, 346 (1997) 341

Microbial enzymatic assay of glucose in serum, 349 (1997) 165 Use of photopolymerizable membranes based on polyacrylamide hydrogels for enzymatic microsensor construction, 351 (1997)

Highly sensitive flow-injection determination of glucose in plasma using an immobilized pyranose oxidase and a chemiluminometric peroxidase sensor, 354 (1997) 205

Mediator type of glucose microbial biosensor based on Aspergillus niger, 356 (1997) 217

Highly-dispersed copper microparticles on the active gold substrate as an amperometric sensor for glucose, 357 (1997) 63

Peroxyoxalate chemiluminescence in aqueous solutions: Coupling of immobilized enzyme reactors and 1,1'-oxalyldiimidazole chemiluminescence reaction to flow-injection analysis and liquid chromatographic systems, 357 (1997) 111

- Amperometric biosensor sensitive to glucose and lactose based on co-immobilization of ferrocene, glucose oxidase,  $\beta$ -galactosidase and mutarotase in  $\beta$ -cyclodextrin polymer, 358 (1998) 137
- Modeling and optimization studies for a sequential flow based bioanalytical system, 359 (1998) 157
- Development of an oxidase-based glucose sensor using thicknessshear-mode quartz crystals, 363 (1998) 203
- Optimization of an inorganic/bio-organic matrix for the development of new glucose biosensor membranes, 364 (1998) 165
- Glucose oxidase/polyion complex-bilayer membrane for elimination of electroactive interferents in amperometric glucose sensor, 364 (1998) 173
- Simultaneous monitoring of glucose and L-lactic acid during a fermentation process in an aqueous two-phase system by online FIA with microdialysis sampling and dual biosensor detection, 366 (1998) 127
- Fluorimetric-enzymatic determination of glucose based on labelled glucose oxidase, 368 (1998) 97
- Chemiluminescence flow-sensing system for hydrogen peroxide with immobilized reagents, 372 (1998) 357
- On-line monitoring of galactoside conjugates and glycerol by flow injection analysis, 373 (1998) 57
- Glucose conductometric biosensor with potassium hexacyanoferrate(III) as an oxidizing agent, 374 (1998) 11
- Study and analytical application of bromopyrogallol red as a hydrogen donor substrate for peroxidase, 379 (1999) 63
- Slow ultrafiltration for continuous in vivo sampling: application for glucose and lactate in man, 379 (1999) 327
- Simultaneous biosensing of ethanol and glucose with combined use of a rotating bioreactor and a stationary column reactor, 380 (1999) 1
- Dual electrode signal-subtracted biosensor for simultaneous flow injection determination of sucrose and glucose, 380 (1999)
- Luminol electrochemiluminescence-based fibre optic biosensors for flow injection analysis of glucose and lactate in natural samples, 381 (1999) 1
- Evaluation of nonlinear model building strategies for the determination of glucose in biological matrices by near-infrared spectroscopy, 384 (1999) 333
- In vivo glucose monitoring with open microflow influences of fluid composition and preliminary evaluation in man, 385 (1999) 23
- An integrated three-electrode system with a micromachined liquidjunction Ag/AgCl reference electrode, 387 (1999) 103
- Glucose microsensors based on carbon paste enzyme electrodes modified with cupric hexacyanoferrate, 395 (1999) 11

## Glucose biosensor

- Chromium hexacyanoferrate based glucose biosensor, 381 (1999) 183
- Electropolymerization of pyrrole and phenylenediamine over an organic conducting salt based amperometric sensor of increased selectivity for glucose determination, 385 (1999) 203
- Al<sub>2</sub>O<sub>3</sub> sol-gel derived amperometric biosensor for glucose, 392 (1999) 135

## Glucose dehydrogenase

- Determination of p-aminophenol and catecholamines at picomolar concentrations based on recycling enzyme amplification, 304 (1995) 25
- Application of a sensitive catechol detector for determination of tyrosinase inhibitors, 362 (1998) 81
- Sensitive catecholamine measurement using a monoenzymatic recycling system, 368 (1998) 233

## Glucose determination

- Micro-scale determination of glucose by capillary flow injection with an immobilized enzyme reactor, 381 (1999) 165
- Determination of glucose based on the effect of photons as a substitute for glucose oxidase, 388 (1999) 11

## Glucose measurement

Assessment of glucose oxidase behaviour in alcoholic solutions using disposable electrodes, 368 (1998) 219

#### Glucose monitoring

Electrocatalytic oxidation of H<sub>2</sub>O<sub>2</sub> at an oxycobalt film modified glassy carbon electrode for fermentation monitoring, 351 (1997) 133

## Glucose oxidase

- Properties of carbon fibre microelectrodes as a basis for enzyme biosensors, 303 (1995) 275
- Evaluation of amperometric glucose biosensors based on co-immobilisation of glucose oxidase with an osmium redox polymer in electrochemically generated polyphenol films, 304 (1995) 127
- Amperometric glucose biosensor manufactured by a printing technique, 304 (1995) 157
- β-Cyclodextrin cation exchange polymer membrane for improved second-generation glucose biosensors, 306 (1995) 201
- Self-assembled monolayers and enzyme electrodes: progress, problems and prospects, 307 (1995) 277
- Tuning of glucose oxidase modified alkylacrylate polymers employed in amperometric sensor systems, 310 (1995) 199
- Amperometric biosensors based on the immobilization of oxidases in a Prussian blue film by electrochemical codeposition, 310 (1995) 429
- Fibre optic biosensor for the determination of D-glucose based on absorption changes of immobilized glucose oxidase, 319 (1996) 103
- An electrocatalytic approach for the measurement of chlorophenols, 327 (1996) 235
- In situ biochemical reduction of interference in an amperometric biosensor with a novel heterobilayer configuration of polypyrrole/glucose oxidase/horseradish peroxidase, 329 (1996) 223
- Glucose detection at bare and sputtered platinum electrodes coated with polypyrrole and glucose oxidase, 335 (1996) 209
- Acid phosphatase/glucose oxidase-based biosensors for the determination of pesticides, 336 (1996) 67
- Glucose oxidase/hexokinase electrode for the determination of ATP, 340 (1997) 109
- Reagentless amperometric biosensors highly sensitive to hydrogen peroxide, glucose and lactose based on N-methyl phenazine methosulfate incorporated in a Nafion film as an electron transfer

mediator between horseradish peroxidase and an electrode, 344 (1997) 187

Amperometric biosensor sensitive to glucose and lactose based on co-immobilization of ferrocene, glucose oxidase, β-galactosidase and mutarotase in β-cyclodextrin polymer, 358 (1998) 137

Optimization of an inorganic/bio-organic matrix for the development of new glucose biosensor membranes, 364 (1998) 165

Assessment of glucose oxidase behaviour in alcoholic solutions using disposable electrodes, 368 (1998) 219

Glucose oxidase electrodes via reconstitution of the apo-enzyme: tailoring of novel glucose biosensors, 385 (1999) 45

Al<sub>2</sub>O<sub>3</sub> sol-gel derived amperometric biosensor for glucose, 392 (1999) 135

Immobilisation of enzyme throughout a polytyramine matrix: a versatile procedure for fabricating biosensors, 394 (1999) 211

#### Glucose sensing

Measurement of glucose and other analytes in undiluted human serum with near-infrared transmission spectroscopy, 371 (1998) 255

## Glucose sensor

Long-term response of an integrated carbon paste based glucose biosensor, 303 (1995) 285

Glucose sensor based on carbon paste electrode incorporating poly(ethylene glycol)-modified glucose oxidase and various mediators, 304 (1995) 33

Fabrication of directly polymerized 4-vinylpyridine onto a pencil 2B graphite paste electrode for glucose monitoring, 354 (1997) 351

Glucose oxidase electrodes via reconstitution of the apo-enzyme: tailoring of novel glucose biosensors, 385 (1999) 45

#### Glucose/fructose

Determination of glucose and fructose in mixtures by a kinetic method with chemiluminescence detection, 398 (1999) 191

## Glucose-6-phosphate

Acid phosphatase/glucose oxidase-based biosensors for the determination of pesticides, 336 (1996) 67

#### β-Glucosidase

A potentiometric biosensor for p-amygdalin based on a consolidated biocomposite membrane, 391 (1999) 65

#### Glutamate

Sequential enzymatic monitoring of glucose, ethanol and glutamate in bioreactor fermentation broth containing a high salt concentration by a multi-channel flow-injection analysis method, 308 (1995) 145

Enzymatic determinations with rotating bioreactors: Determination of glutamate in food products, 369 (1998) 147

Do neurotransmitters sampled by brain microdialysis reflect functional release?, 379 (1999) 263

## Glutamate dehydrogenase

Flow injection determination of chlorpromazine by inhibition of glutamate dehydrogenase, 387 (1999) 47

## Glutamate pyruvate transaminase

The kinetics-based electrochemical determination of serum glutamate pyruvate transaminase activity with a gold microelectrode, 353 (1997) 319

#### Glutamic acid

Rapid detection of ℓ-glutamic acid using a series-electrode piezoelectric quartz crystal sensor, 313 (1995) 229

#### Glutaraldehyde

Dynamic analysis of the binding process of bovine serum albumin on glutaraldehyde-activated controlled pore glass, 308 (1995) 261

#### Glutathione

Capillary zone electrophoresis with end-column amperometric detection for the determination of glutathione at a gold/mercury amalgam microelectrode without deoxygenation, 343 (1997) 231

## Gluteraldehyde modified chitosan

Evaluation of gluteraldehyde-modified chitosan as a matrix for hydrophobic interaction chromatography, 313 (1995) 253

#### Glutethimide

Enantiomeric separation of some piperidine-2,6-dione drugs on tolylcellulose by liquid chromatography, 346 (1997) 183

## Glycated hemoglobins

Isoelectric focusing of proteins and peptides in gel slabs and in capillaries, 372 (1998) 1

## Glycerol

Amperometric glyceride biosensor, 330 (1996) 159

Fluorometric determination of periodate with thiamine and its application to the determination of ethylene glycol and glycerol, 359 (1998) 87

On-line monitoring of galactoside conjugates and glycerol by flow injection analysis, 373 (1998) 57

## Glycerol dehydrogenase

Polyethyleneimine-coated reticulated vitreous carbon electrode with immobilized enzymes as a substrate detector, 374 (1998) 185

#### Glycidyl and methyl methacrylate copolymer

Examination of an immunoglobulin modified methacrylate copolymer for amperometric immunoassay, 396 (1999) 171

#### Glycine

Immobilized soft-metal affinity system for amino acids based on an 8-hydroxyquinoline-Pd(II) complex; characterization using glycine as a model, 315 (1995) 339

## Glycoform separation

Recent advances in the capillary electrophoresis of recombinant glycoproteins, 383 (1999) 137

# Glycoforms

Determination of carbohydrate heterogeneity in the humanised antibody CAMPATH 1H by liquid chromatography and matrix-assisted laser desorption ionisation mass spectrometry, 306 (1995) 43

## Glycoprotein enzyme

Isoelectric focusing of biotinidase and lipoamidase with the addition of non-ionic detergent, 372 (1998) 281

## Glycoproteins

Comparison of microscale cleaning procedures for (Glyco) proteins prior to positive ion matrix-assisted laser desorption ionization mass spectrometry, 372 (1998) 187

Separation of soluble glycoproteins from sugarcane juice by capillary electrophoresis, 372 (1998) 201

Recent advances in the capillary electrophoresis of recombinant glycoproteins, 383 (1999) 137

# Glycosphingolipids

Characterization of gangliosides by two-dimensional high-performance thin-layer chromatography, 311 (1995) 57

#### Glyphosate

Determination of glyphosate and related compounds using HPLC with tris(2,2'-bipyridyl)ruthenium(II) electrogenerated chemiluminescence detection, 341 (1997) 195

## GM-CSF

Amperometric immunosensor for granulocyte-macrophage colonystimulating factor using screen-printed electrodes, 389 (1999) 171

#### Goethite

The use of voltammetry for sorption studies of heavy metals on mineral surfaces in presence of the siderophore desferrioxamine B, 392 (1999) 159

## Golay-Savitzky method

Fourth derivative spectroscopy - a critical view, 349 (1997) 295

#### Gold

Inductively coupled plasma mass spectrometric determination of gold in serum: comparison with flame and furnace atomic absorption spectrometry, 304 (1995) 317

Iodometric determination of gold and platinum by 168- and 126-fold chemical amplification reactions, 307 (1995) 139

Factors that influence the stability of self-assembled organothiols on gold under electrochemical conditions, 307 (1995) 253

Spectrographic determination of gold in geological materials after preconcentration on Spheron-Thiol, 320 (1996) 145

Selective up-hill transport of gold to iodide stripping solution through a solvent modified liquid membrane containing a polysulphide podand as carrier, 327 (1996) 175

Determination of platinum and gold in anticancer and antiarthritic drugs and metabolites, 334 (1996) 5

Highly-dispersed copper microparticles on the active gold substrate as an amperometric sensor for glucose, 357 (1997) 63

Comparison of chemical modifiers used for the determination of gold in ores by electrothermal atomic absorption spectrometry, 362 (1998) 247

Adsorptive cathodic stripping voltammetric determination of gold(-III) in the presence of yeast mannan, 385 (1999) 393

## Gold amalgam

Stripping voltammetry at preplated mercury coated microelectrodes in flowing solutions, 325 (1996) 11

## Gold and palladium

Recovery of palladium(II) and gold(III) from diluted liquors using the resin duolite GT-73, 381 (1999) 61

## Gold determination

PVC-matrix membrane ion-selective sensors for gold determination in cyanide solutions, 357 (1997) 231

#### Gold electrode

Surface-confined monomers on electrode surfaces Part 3. Electrochemical reactions and scanning probe microscopy investigations of ω-(N-pyrrolyl) alkanethiol self-assembled monolayers on gold, 307 (1995) 269

Flow-injection anodic stripping voltammetry at a gold electrode for selenium(IV) determination, 308 (1995) 96

Voltammetric responsive sensors for organic compounds based on organized self-assembled lipoyl-β-cyclodextrin derivative monolayer on a gold electrode, 337 (1997) 217

Determination of traces of arsenic(III) by anodic stripping voltammetry in solutions, natural waters and biological material, 368 (1998) 211

Determination of sub-µg l<sup>-1</sup> concentrations of copper by anodic stripping voltammetry at the gold electrode, 387 (1999) 85

A reagentless hydrogen peroxide sensor based on incorporation of horseradish peroxidase in poly(thionine) film on a monolayer modified electrode, 391 (1999) 299

Hot-wire stripping potentiometric measurements of trace mercury, 396 (1999) 33

## Gonioreflectmetry

Gonio-spectrophotometric analysis of white and chromatic reference materials, 380 (1999) 173

#### GO

Glucose detection at bare and sputtered platinum electrodes coated with polypyrrole and glucose oxidase, 335 (1996) 209

#### GR151004

Development of a sensitive radioimmunoassay for the potential antimigraine drug GR151004: including cross-validation to liquid chromatography-mass spectrometry-mass spectrometry and application to pharmacokinetic studies, 334 (1996) 225

## Gradient and isocratic elution

Near field thermal lens detector for gradient elution liquid chromatography, 353 (1997) 207

## Gradient dilution

A liquid drop: A windowless optical cell and a reactor without walls for flow injection analysis, 326 (1996) 13

## Gradient elution

Evaluation of trifluoroacetic acid as an ion-pair reagent in the separation of small ionizable molecules by reversed-phase liquid chromatography, 399 (1999) 249

## GRAM

Rapid estimation of rate constants using on-line SW-NIR and trilinear models, 376 (1998) 339

#### Gramicidin

HPLC in the characterisation of conformational species of linear gramicidins, 352 (1997) 309

#### Graphite

Scanning tunneling microscopic observations of commensurate crystalline structures for horizontally deposited cadmium stearate bilayers on graphite, 307 (1995) 377

Graphite-poly(tetrafluoroethylene) electrodes as electrochemical detectors in flowing systems, 314 (1995) 13

## Graphite furnace

The determination of lead in whole blood by laser enhanced ionization using a combination of electrothermal vaporizer and flame, 333 (1996) 187

Investigation of the molecular species produced by the vaporization of the Group IIA metal nitrates from a graphite surface, 333 (1996) 285

Coprecipitation of ruthenium with chitosan and its determination by graphite furnace atomic absorption spectrometry, 398 (1999) 289

# Graphite furnace atomic absorption spectrometry

Determination of selenium content in natural water by graphite furnace atomic absorption spectrometry after preconcentration with molybdate-form anion exchange resin, 351 (1997) 319

Determination of lead and cadmium in whole blood of mothers and their babies, 353 (1997) 307

Determination of gallium by graphite furnace atomic absorption spectrometry with combined use of a tungsten-coated L'vov platform tube and a chemical modification technique, 390 (1999) 201

## Graphite furnace atomic absorption spectroscopy

Low volume microwave digestion for the determination of selenium in marine biological tissues by graphite furnace atomic absorption spectroscopy, 350 (1997) 287

## Graphite furnace molecular absorption spectrometry

Comparison of deuterium arc and Smith-Hieftje background correction for graphite furnace molecular absorption spectrometry of fluoride and chloride, 315 (1995) 167

## Graphite furnace vaporization

Use of a low power, high frequency stabilized capacitive plasma combined with graphite furnace vaporization for the atomic emission spectrometric analysis of serum samples, 332 (1996) 193

# Graphite sensors

Determination of metformin in pharmaceutical preparations using potentiometry, spectrofluorimetry and UV-visible spectrophotometry, 378 (1999) 299

## Graphite/PVC composite matrix

Nickel oxide dispersed in a graphite / poly(vinyl chloride) composite matrix for an electrocatalytic amperometric sensor of additols in flow-injection analysis, 307 (1995) 43

## Graphite-epoxy biocomposite

Hydrogen peroxide amperometric biosensor based on a peroxidasegraphite-epoxy biocomposite, 332 (1996) 131

Determination of organophosphorus and carbamate pesticides using a biosensor based on a polishable, 7,7,8,8-tetracyanoquinodimethane-modified, graphite-epoxy biocomposite, 337 (1997) 305

# Graphite-epoxy composite

Study of the temperature behaviour of all-solid-state nonactin ammonium electrodes with PVC membrane applied to graphite-epoxy supports of varied composition, 355 (1997) 241

## Graphite-methacrylate immunocomposite

Determination of  $\beta$ -HCG using amperometric immunosensors based on a conducting immunocomposite, 396 (1999) 181

#### Graphitized carbon black extraction

Determination of didealkylatrazine in water by graphitized carbon black extraction followed by gas chromatography-high resolution mass spectrometry, 304 (1995) 67

#### Gravimetry

Solid based titrimetry, 318 (1996) 373

Determination of reducing sugars by flow injection gravimetry, 366 (1998) 119

#### Greenland

Determination of lead isotopic ratios in Greenland and Antarctic snow and ice at picogram per gram concentrations, 311 (1995) 141

## Groundwater pollution

A factor analysis approach to the study of the eutrophication of a shallow, temperate lake (San Daniele, North Eastern Italy), 306 (1995) 99

# Groundwater redox potential

Accelerated measurement of groundwater redox potentials: method and application, 396 (1999) 23

## Group IIA elements

Investigation of the molecular species produced by the vaporization of the Group IIA metal nitrates from a graphite surface, 333 (1996) 285

# Group separation of rare earth elements

A chelating resin containing 4-(2-thiazolylazo)resorcinol as the functional group. Chromatographic application to the preconcentration and separation of some trace metal ions including uranium, 351 (1997) 57

## Growth model

Model of quartz crystal microbe growth sensor and its application to estimation of microbial populations in mineral waters, 329 (1996) 83

#### GSH

Determination of glutathione in vivo by microdialysis using liquid chromatography with a cobalt hexacyanoferrate chemically modified electrode, 391 (1999) 307

## 3-Guanidinopropionic acid

Determination of trace cyanide in 3-guanidinopropionic acid by stripping preconcentration/isolation followed by flow-injection analysis with amperometric detection at silver, 313 (1995) 75

#### Guanine

Adsorption-voltammetric determination of guanine, guanosine, adenine and adenosine with capillary zone electrophoresis separation, 347 (1997) 269

Indicator-free electrochemical DNA hybridization biosensor, 375 (1998) 197

A chemiluminescence derivatization method for detecting nucleic acids and DNA probes using a trimethoxyphenylglyoxal reagent that recognizes guanine, 381 (1999) 155

#### Guanosine

Adsorption-voltammetric determination of guanine, guanosine, adenine and adenosine with capillary zone electrophoresis separation, 347 (1997) 269

## Guanylate cyclase

Design, synthesis and characterization of a novel fluorescent probe for nitric oxide (nitrogen monoxide), 365 (1998) 159

#### Guidance

Quality assurance good practice for research and development and non-routine analysis, 393 (1999) 157

## **Gulf of Trieste**

Modeling bio-geochemical interactions in the surface waters of the Gulf of Trieste by three-way principal component analysis (PCA), 398 (1999) 227

# Gy's sampling theory

Comparison of some methods to estimate the limiting value of the variogram, v<sub>h</sub>(j), for the sampling interval j=0 in sampling error estimation, 346 (1997) 277

# H

## Haemoglobin

Hemoglobin interference with an enzyme-linked immunosorbent assay for the detection of tumor necrosis factor-alpha, 313 (1995) 1

Poly(methylene blue) modified electrode sensor for haemoglobin, 385 (1999) 119

#### Hafnium

Behaviour of Zr, Hf, Nb, Ta and Pa on macroporous anion exchanger in chloride-fluoride media, 374 (1998) 149

## Hafnium oxide analysis

Simultaneous determination of zirconium and hafnium as ternary complexes with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol and fluoride by reversed-phase liquid chromatography, 361 (1998) 177

## Hair (bovine)

Investigation of the electrochemical oxidation of clenbuterol at a porous carbon electrode, and its application to the determination of this β-agonist in bovine hair by liquid chromatography with coulometric detection, 322 (1996) 159

## Hair analysis

Hair analysis. Part 1: Differential pulse anodic stripping voltammetric determination of lead, cadmium, zinc and copper in human hair samples of persons in permanent contact with a polluted workplace environment, 335 (1996) 201

Hair analysis. Part 2. Differential pulse anodic stripping voltammetric determination of thallium in human hair samples of persons in permanent contact with lead in their workplace, 343 (1997) 225

## Half-normal plot

Strategy for ruggedness tests in chromatographic method validation, 391 (1999) 187

## Half-wave potentials

Structure-property relationship between half-wave potentials of organic compounds and their topology, 316 (1995) 39

# Halide and thiocyanate

Simultaneous determination of halide and thiocyanate ions by potentiometric precipitation titration and multivariate calibration, 390 (1999) 117

#### Halide ions

Ion beam sensitized SiO2 surface for halide ions, 320 (1996) 289

#### Halitori

Simple detector for oral malodour based on spectrofluorimetric measurements of hydrogen sulphide in mouth air, 398 (1999) 23

## Hallucinogens

Evaluation of peroxyoxalate chemiluminescence for the sensitive determination of hallucinogenic alkaloids, 314 (1995) 87

#### Haloacetic acids

Detection of haloacetic acids at conductive electroactive polymermodified microelectrodes, 341 (1997) 141

#### Halocarbons

A simple and sensitive method for the determination of volatile halogenated organic compounds in sea water in the amol l<sup>-1</sup> to pmol l<sup>-1</sup> range, 357 (1997) 197

## Halogenated hydrocarbons

Iminoketonate complexes of Cu(II) chemically bonded to silica in gas chromatography, 378 (1999) 101

## Halogenated isoxazolylnaphthoquinones

Determination of 3-chloro-N-chloro-N-(3,4-dimethyl-5-isoxazolyl)-4-amine-1,2-naphthoquinone in presence of its degradation products using second derivative spectrophotometry, 318 (1996) 221

## Halogenated organic compounds

Development of a microbial bioassay for chlorinated and brominated hydrocarbons, 306 (1995) 237

## Halogenides

Speciation of halogenides and oxyhalogens by ion chromatographyinductively coupled plasma mass spectrometry, 360 (1998) 161

#### Halons

Ozone chemiluminescence in environmental analysis, 303 (1995) 127

#### Halothane

A simple, highly stable scintillator light source for ultraviolet absorption-based sensors, 367 (1998) 153

## Hand-held analyzer

Stripping analysis into the 21st century: faster, smaller, cheaper, simpler and better, 385 (1999) 429

## Hand-held ion mobility spectrometer

Multivariate statistical analysis characterization of applicationbased ion mobility spectra, 316 (1995) 1

#### Hanford Defense Waste

Metal ion interferences in reverse polarity capillary zone electrophoretic analysis of Hanford Defense Waste for ethylenediaminetetraacetic acid (EDTA) and n-hydroxyethylethylenediaminetriacetic acid (HEDTA), 396 (1999) 105

#### Hapten

Towards a homogeneous fluorescence assay for a herbicide: characterization of the interactions of fusilade, bromomethylmethoxy coumarin derivatized fusilade, and anti-fusilade IgG antibody, 336 (1996) 157

Preparation of antisera and development of a direct enzyme-linked immunosorbent assay for the determination of the antifouling agent Irgarol 1051, 347 (1997) 139

4.4'-Dinitrocarbanilide – hapten development utilizing molecular models, 376 (1998) 139

#### Hapten design

Broadening the antibody specificity by hapten design for an enzyme-linked immunoassay as an improved screening method for the determination of nitroaromatic residues in soils, 315 (1995) 279

Hapten design for compound-selective antibodies: ELISAS for environmentally deleterious small molecules, 376 (1998) 83

Effect of competitor design on immunoassay specificity: Development and evaluation of an enzyme-linked immunosorbent assay for 2,4-dinitrophenol, 387 (1999) 267

# Haptoglobin

Application of Western-blotting technique with chemiluminescence imaging to the study of haptoglobin type and haptoglobin complexes, 362 (1998) 113

## Harbour water

Speciation of tin by reversed phase liquid chromatography with inductively coupled plasma mass spectrometric detection, 312 (1995) 141

## Hard-modelling

Influence of selectivity and polyelectrolyte effects on the performance of soft-modelling and hard-modelling approaches

applied to the study of acid-base equilibria of polyelectrolytes by spectrometric titrations, 331 (1996) 195

# **HBsAg**

A novel polymer-mimetic enzyme immunoassay system based on thermal phase separating technique, 375 (1998) 177

## **B-HCG** determination

Determination of β-HCG using amperometric immunosensors based on a conducting immunocomposite, 396 (1999) 181

#### HDV

Minimization of genomic human hepatitis delta virus ribozyme, 365 (1998) 309

#### Headspace gas analysis

A method of repeated sampling of static headspace above anaerobic bacterial cultures with fluorine-induced chemiluminescence detection, 303 (1995) 91

## Headspace sampling

The identification of an unusual volatile component in processed tobacco by gas chromatography with mass spectrometry and atomic emission detection, 335 (1996) 253

#### Health and safety

Environmental analysis in the workplace; development of airborne monitoring systems for potentially harmful pharmaceuticals: an improved rapid ELISA for ceftazidime, 311 (1995) 377

Environmental analysis in the workplace; development of a rapid, sensitive ELISA for monitoring airborne alcalase, 316 (1995) 247

# Heat sealing

Stripping voltammetry at preplated mercury coated microelectrodes in flowing solutions, 325 (1996) 11

#### Heat treatment

Assessment of heat treatment for nutrient preservation in seawater samples, 351 (1997) 299

## **Heated electrodes**

Hot-wire stripping potentiometric measurements of trace mercury, 396 (1999) 33

# Heavy crude oil

Three analytical methods to isolate and characterize vanadium and nickel porphyrins from heavy crude oil, 395 (1999) 343

#### Heavy metal adsorption

2-Mercaptobenzothiazole clay as matrix for sorption and preconcentration of some heavy metals from aqueous solution, 306 (1995) 167

#### Heavy metal content

Terrigenous debris and mussel pollution – a differentiation based on trace element concentration by means of multivariate analysis, 344 (1997) 251

## Heavy metal ions

Column solid-phase extraction of heavy metal ions on a high surface area CeO<sub>2</sub> as a preconcentration method for trace determination, 336 (1996) 141 Multi-enzymatic electrochemical sensor: field measurements and their optimisation, 385 (1999) 461

Monitoring Pb2+ with optical sensing films, 388 (1999) 327

# Heavy metal traces analysis

Development of Hg-electroplated-iridium based microelectrode arrays for heavy metal traces analysis, 385 (1999) 249

## Heavy metal/polyelectrolyte complexes

Stripping voltammetry of heavy metal/polyelectrolyte complexes Part 2. Analysis in terms of polyelectrolyte theory, 317 (1995) 327

# Heavy metals

Coprecipitation with tin (IV) hydroxide followed by removal of tin carrier for the determination of trace heavy metals by graphite-furnace atomic absorption spectrometry, 302 (1995) 103

Determination of tin in canned fruit juices by stripping potentiometry, 333 (1996) 115

Inductively coupled plasma mass spectrometric determination of heavy metals in soil and sludge candidate reference materials, 304 (1995) 307

Chemometric methods for the development of a biosensor system and the evaluation of inhibition studies with solutions and mixtures of pesticides and heavy metals Part 1. Development of an enzyme electrodes system for pesticide and heavy metal screening using selected chemometric methods, 318 (1996) 275

Multivariate evaluation of inhibition studies on an enzyme electrodes system with pesticides and mixtures of mercury and pesticides, 325 (1996) 1

Characterization of colloidal particles by laser-induced plasma spectroscopy (LIPS), 346 (1997) 23

Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165

Modification of the van den Berg/Ruzic method for the investigation of complexation parameters of natural waters, 354 (1997) 15

A critical evaluation of the three-stage BCR sequential extraction procedure to assess the potential mobility and toxicity of heavy metals in industrially-contaminated land, 363 (1998) 45

Immunoassays for metal ions, 376 (1998) 13

Application of a new automatic event-controlled sampler for heavy metals: studies on the behaviour of particle bound heavy metals in the Elbe estuary, 377 (1998) 263

Interaction of pyrite pulps with Ag\* and Hg<sup>2+</sup> ions. Electrochemical characterization of micrometric grains, 385 (1999) 467

Whole cell- and protein-based biosensors for the detection of bioavailable heavy metals in environmental samples, 387 (1999) 235

The determination of cadmium and six other heavy metals in nitrate/ phosphate fertilizer solution by ion chromatography, 391 (1999) 35

Laser-induced plasma spectroscopy (LIPS): a versatile tool for monitoring heavy metal aerosols, 392 (1999) 47

Thallium speciation in river waters with Chelex-100 resin, 395 (1999) 301

Metal readsorption and redistribution during the analytical fractionation of trace elements in oxic estuarine sediments, 399 (1999)

## Heavy oil samples

Determination of trace elements in heavy oil samples by graphite furnace and cold vapour atomic absorption spectrometry after acid digestion, 311 (1995) 85

## Heavy-atom effect

Solid-matrix luminescence in glucose and trehalose glasses with heavy-atom salts, 332 (1996) 299

#### Heliobacteria

Light-independent isomerization of bacteriochlorophyll g to chlorophyll a catalyzed by weak acid in vitro, 365 (1998) 199

#### Helium microwave induced plasma

Membrane desolvation for the analysis of organic solutions and liquid chromatographic samples with low power helium microwave induced plasma atomic emission detection, 390 (1999) 217

#### Heme proteins

Direct electron transfer between heme-containing enzymes and electrodes as basis for third generation biosensors, 400 (1999) 91

## Hemin

Comparative study of some synthesised and commercial fluorogenic substrates for horseradish peroxidase and its mimetic enzyme hemin by a flow injection method, 340 (1997) 159

A novel polymer-mimetic enzyme immunoassay system based on thermal phase separating technique, 375 (1998) 177

Mimicry of peroxidase by co-immobilization of 1-allylimidazole and hemin on N-isopropylacrylamide-based hydrogel, 400 (1999) 135

## Hemodialysis

A study of the permeability properties of surfactant modified poly(vinyl chloride) membranes, 350 (1997) 67

#### Hemoglobin

Properties of poly-β-aminoanthraquinone modified carbon fiber electrode as a basis for hemoglobin biosensors, 327 (1996) 125

High performance liquid chromatographic analysis of human hemoglobins and their polypeptide chains: its use in the identification of variants, 352 (1997) 187

Electrocatalysis by a C<sub>60</sub>-γ-cyclodextrin (1:2) and nafion chemically modified electrode of hemoglobin, 356 (1997) 225

Study of biomolecules by combining electrochemistry with UV/Vis, IR and surface enhanced Raman scattering spectroscopy by a novel flow microcell, 382 (1999) 171

Hydrolysis of hemoglobin surveyed by infrared spectroscopy . II. Progress predicted by chemometrics, 396 (1999) 241

#### Heparin

Chiral separations using heparin and dextran sulfate in capillary zone electrophoresis, 307 (1995) 185

## Hepatitis A

Surface and polarization fluorescence studies on the interaction of an RGD sequence containing a Hepatitis A virus peptide with phospholipids, 303 (1995) 65

#### Hepatitis viruses

A piezoelectric immunosensor for hepatitis viruses, 309 (1995) 19

#### HEPES

Electrochemical study of proton ionisation, copper(II) complexation and surfactant properties of piperazine-N-N'-bis[2-hydroxypropanesulfonic acid] pH buffer . Comparison with other N-substituted aminosulfonic acids pH buffers, 369 (1998) 115

## **HEPPSO**

Electrochemical study of proton ionisation, copper(II) complexation and surfactant properties of piperazine-N-N'-bis[2-hydroxypropanesulfonic acid] pH buffer . Comparison with other N-substituted aminosulfonic acids pH buffers, 369 (1998) 115

## Herb couple

Determination of flavonoids and alkaloids in the scute-coptis herb couple by capillary electrophoresis, 313 (1995) 113

#### Herbicides

Highly sensitive quartz crystal immunosensors for multisample detection of herbicides, 304 (1995) 139

Development of graphite-poly(tetrafluoroethylene) composite electrodes Voltammetric determination of the herbicides thiram and disulfiram, 305 (1995) 192

Batch square-wave voltammetric and flow-injection amperometric determination of trace amounts of bromofenoxim, 310 (1995) 153

Improved liposome immunomigration strip assay for alachlor determination, 311 (1995) 309

Enzyme immunoassays for s-triazine herbicides and their application in environmental and food analysis, 311 (1995) 349

Water quality control in the production of drinking water from river water. The application of immunological techniques for the detection of chlorophenoxy acid herbicides (2,4-D), 311 (1995) 407

Graphite-poly(tetrafluoroethylene) electrodes as electrochemical detectors in flowing systems, 314 (1995) 13

Effect of aliphatic alcohols as mobile phase modifiers on separation of phenylurea and phenoxyalkyl acid herbicides by micellar electrokinetic capillary chromatography, 317 (1995) 181

An approach to the construction of an immunoarray for differentiating and quantitating cross reacting analytes, 319 (1996) 291

The interaction of some pesticides and herbicides with humic substances, 327 (1996) 191

Towards a homogeneous fluorescence assay for a herbicide: characterization of the interactions of fusilade, bromomethylmethoxy coumarin derivatized fusilade, and anti-fusilade IgG antibody, 336 (1996) 157

Optimization of a charge coupled device imaging enzyme linked immuno sorbent assay and supports for the simultaneous determination of multiple 2,4-D samples, 347 (1997) 87

Functionalization of nitrocellulose membranes using ammonia plasma for the covalent attachment of antibodies for use in membrane-based immunoassays, 376 (1998) 133

Selective recognition of atrazine by molecularly imprinted polymer membranes. Development of conductometric sensor for herbicides detection, 392 (1999) 105

Microplate immunoassay technique using polyelectrolyte carriers: kinetic studies and application to detection of the herbicide atrazine, 399 (1999) 151

## Heteroanthracene ring cation dye

Supramolecular inclusion complex formation and application of βcyclodextrin with heteroanthracene ring cationic dyes, 389 (1999) 291

#### Heterobifunctional

Sulfosuccinimidyl 4-(N-maleimidomethyl)-1-cyclohexane carboxylate as a bifunctional immobilization agent. Optimization of the coupling conditions, 361 (1998) 33

## Heterobifunctional cross-linking

A long-term stable penicillin-sensitive potentiometric biosensor with enzyme immobilized by heterobifunctional cross-linking, 323 (1996) 115

## Heteroconjugation

Conjugation and proton exchange equilibria: an electrometric method for determination of heteroconjugation constants in solvents of weak proton donating and weak proton accepting properties, 384 (1999) 27

#### Heterocycles

QSAR study of inclusion complexes of heterocyclic compounds with β-cyclodextrin, 348 (1997) 489

## Heterocyclic azo compounds

Diffuse reflection spectroscopy of indium sorbates with immobilized heterocyclic azo compounds, 364 (1998) 235

# Heterocyclic compounds

Isomer-specific detection of azaarenes in environmental samples by Shpol'skii luminescence spectroscopy, 354 (1997) 181

## Heterocyclic pendant arms

Ion-pair extraction behavior of transition metal(II) cations as charged complexes with ethylenediamine derivatives having heterocyclic pendant arms, 339 (1997) 115

# Heterogeneous immunoassay

A flow-injection continuous filtration approach for the automatic determination of monoclonal antibodies, 331 (1996) 245

## Heterogeneous nucleation

Crystal seeding in flow-injection turbidimetry: determination of total sulfur in plants, 308 (1995) 269

# Heterologous ELISA

Easy-to-use immunoassay for the residue analysis of 2,4,5-T, 376 (1998) 37

## Heteropoly acid

Coupling of membrane-immobilized enzyme reaction and heteropoly acid-luminol chemiluminescence reaction for the determination of adenosine-5'-triphosphate, 349 (1997) 159

## Heteropolytungstate modified electrode

PFeW<sub>11</sub>-doped polymer film modified electrodes and their electrocatalytic activity for H<sub>2</sub>O<sub>2</sub> reduction, 385 (1999) 111

## Heteroscedasticity

Corrections for heteroscedasticity in window evolving factor analysis, 318 (1996) 125

## Heterosigma carterae

Highly sensitive chemiluminescence flow-injection detection of the red tide phytoplankton *Heterosigma carterae*, 390 (1999) 237

## Hexacyanoferrate

Effect of surface activation on charge and mass transfer rates of the hexacyanoferrate(III)/(II) redox probe at fibrinogen-modified carbon paste electrodes, 340 (1997) 99

Flow injection spectrophotometric determination of tenoxicam, 375 (1998) 277

## Hexacyanoferrate(II)

Silica sol-gel immobilized amperometric biosensor for hydrogen peroxide, 335 (1996) 137

Reusable ethanol sensor based on a NAD\*-dependent dehydrogenase without coenzyme addition, 340 (1997) 143

## Hexacyanoferrate(III)

Flow-injection stopped-flow spectrofluorimetric kinetic determination of paracetamol based on its oxidation reaction by hexacyanoferrate(III), 333 (1996) 59

# Hexacyanometallate

Glucose microsensors based on carbon paste enzyme electrodes modified with cupric hexacyanoferrate, 395 (1999) 11

# Hexaethylene glycol

Evaluating the quality of oligonucleotides that are immobilized on glass supports for biosensor development, 395 (1999) 273

## Hexafluorosilicate

A convenient calibrant for silicon determination, 339 (1997) 297

## Hexafluorotantalate(V)

Potentiometric determination of tanatalum with a hexafluorotantalate(V)-selective liquid membrane electrode, 311 (1995) 183

## Hexathia-18-crown-6

Silver(I)-selective membrane electrode based on hexathia-18crown-6, 381 (1999) 111

## Hexathia-18-crown-6-tetraone

Solid phase extraction and determination of ultra trace amounts of mercury(II) using octadecyl silica membrane disks modified by hexathia-18-crown-6-tetraone and cold vapour atomic absorption spectrometry, 355 (1997) 69

#### Hexokinase

Glucose oxidase/hexokinase electrode for the determination of ATP, 340 (1997) 109

## HF/KF treatment

Determination of ultratrace amounts of boron in high purity alcohols by inductively coupled plasma-mass spectrometry with hydrofluoric acid/potassium fluoride treatment, 368 (1998) 275

#### Hg(edta)

Polynuclear complexes of the edta analogues, 394 (1999) 345

#### Ho(II)

Interaction of Hg(II) with soil-derived humic substances, 341 (1997)

# Hg2+ analysis

Flow injection potentiometry by poly(vinyl chloride)-membrane electrodes with substituted azacrown ionophores for the determination of lead(II) and mercury(II) ions, 372 (1998) 387

## Hg<sup>2+</sup> ions

Interaction of pyrite pulps with Ag\* and Hg²\* ions. Electrochemical characterization of micrometric grains, 385 (1999) 467

#### HGAFS

Determination of arsenic, antimony, selenium, tellurium and bismuth in nickel metal by hydride generation atomic fluorescence spectrometry, 371 (1998) 109

## Hg-electroplated-iridium based microelectrode arrays

Development of Hg-electroplated-iridium based microelectrode arrays for heavy metal traces analysis, 385 (1999) 249

#### **HG-ETAAS**

Direct trace determination of lead in estuarine water using in situ preconcentration of lead hydride on Ir, Zr and W-coated graphite tubes, 368 (1998) 281

Selective medium reactions for the 'arsenic(III)', 'arsenic(V)', dimethylarsonic acid and monomethylarsonic acid determination in waters by hydride generation on-line electrothermal atomic absorption spectrometry with in situ preconcentration on Zrcoated graphite tubes, 374 (1998) 231

# Hidden node pruning algorithm (HNPA)

Multivariate nonlinear modelling of fluorescence data by neural network with hidden node pruning algorithm, 344 (1997) 29

## Hidden peaks

Resolution of hidden minor peaks in multidetection chromatography by estimation of a single parameter in a 2-D transformation matrix, 309 (1995) 123

## Hidepowder-modified carbon paste electrode

Voltammetric study of 2-methyl-4,6-dinitrophenol at a modified carbon paste electrode, 370 (1998) 231

## High absorbance samples

Prediction of the calibration curves for the analysis of high absorbances using mode-mismatched dual-beam thermal lens spectrometry with chopped continuous wave laser excitation, 322 (1996) 117

## High automatic dilution

Methods for on-line monitoring to be implemented in an ammonium thiosulphate production plant, 308 (1995) 187

## High ionic strength

Metal ion interferences in reverse polarity capillary zone electrophoretic analysis of Hanford Defense Waste for ethylenediaminetetraacetic acid (EDTA) and n-hydroxyethylethylenediaminetriacetic acid (HEDTA), 396 (1999) 105

## High lipophilicities

Paraquat sensors containing membrane components of high lipophilicities, 338 (1997) 89

## High performance liquid chromatography

- Specific and sensitive determination of lipid hydroperoxides with chemical derivatization into 1-naphthyldiphenylphosphine oxide and high-performance liquid chromatography, 307 (1995) 97
- A simple and fast method to determine and quantify urinary creatinine, 312 (1995) 79
- Ruggedness tests on the high-performance liquid chromatography assay of the United States Pharmacopeia XXII for tetracycline hydrochloride. A comparison of experimental designs and statistical interpretations, 312 (1995) 245
- Characterization of the acousto-optic tunable filter for the ultraviolet and visible regions and development of an acousto-optic tunable filter based rapid scanning detector for high-performance liquid chromatography, 314 (1995) 57
- Ruggedness tests for a high-performance liquid chromatographic assay: comparison of an evaluation at two and three levels by using two-level Plackett-Burman designs, 316 (1995)
- Ancient resinous substances characterisation, an approach by principal component analysis, 317 (1995) 65
- Investigation by experimental design and regression models of the effect of five experimental factors on ion-interaction highperformance liquid chromatographic retention, 321 (1996) 225
- Comparative prediction of the retention behaviour of small peptides in several reversed-phase high-performance liquid chromatography columns by using partial least squares and multiple linear regression, 326 (1996) 77
- Use of cloud point extraction methodology for the determination of PAHs priority pollutants in water samples by high-performance liquid chromatography with fluorescence detection and wavelength programming, 330 (1996) 199
- Arsenic speciation in biological samples by on-line high performance liquid chromatography-microwave digestion-hydride generation-atomic absorption spectrometry, 334 (1996)
- A reversed-phase high performance liquid chromatography method using solid phase extraction to quantitate thalidomide in human serum, 339 (1997) 91
- Determination of glyphosate and related compounds using HPLC with tris(2,2'-bipyridyl)ruthenium(II) electrogenerated chemiluminescence detection, 341 (1997) 195

- Diode laser induced near infra-red fluorescence detection for highperformance liquid chromatography analysis of indocyanine green in plasma, 342 (1997) 145
- Binding of sulfamethoxazole to human serum albumin studied by a combined technique of microdialysis with liquid chromatography, 342 (1997) 159
- A sensitive method for the determination of 6-nitrochrysene, 2-nitro-fluoranthene and 1-, 2- and 4-nitropyrenes in airborne particulates using high-performance liquid chromatography with chemiluminescence detection, 343 (1997) 251
- An ion-interaction RP-HPLC method for the determination of the eleven EPA priority pollutant phenols, 346 (1997) 61
- Near field thermal lens detector for gradient elution liquid chromatography, 353 (1997) 207
- Application of polyacrylamide slab gel electrophoresis to the analysis and small-scale purification of amyloid proteins, 372 (1998)
- Use of HPLC and multivariate methods for the evaluation of the stability of colour pigments of paprika (Capsicum annuum) powder, 372 (1998) 411
- Confirmation and method development for dechlorinated atrazine from reductive dehalogenation of atrazine with Fe<sup>0</sup>, 373 (1998) 153
- Separation of double-strand DNA fragments by high-performance liquid chromatography using a ceramic hydroxyapatite column, 386 (1999) 69
- Evaluating the quality of oligonucleotides that are immobilized on glass supports for biosensor development, 395 (1999) 273

#### High performance liquid chromatography method

High performance liquid chromatographic determination of peptidase activity toward proline-containing peptides, 352 (1997) 179

## High pH values

Optical sensor for high pH values, 367 (1998) 167

## High purity gallium

Determination of trace impurities in high purity gallium by inductively coupled plasma mass spectrometry and cross validation of results by transverse heated graphite furnace atomic absorption spectrometry, 371 (1998) 305

## High resolution inductively coupled plasma mass spectrometry

- Determination of trace impurities in high-purity aluminium oxide by high resolution inductively coupled plasma mass spectrometry, 369 (1998) 79
- Determination of chromium in airborne particulate matter by high resolution and laser ablation inductively coupled plasma mass spectrometry, 389 (1999) 257

## High resolution low temperature molecular luminescence spectroscopy

Shpol'skii spectroscopy as a tool in environmental analysis for amino- and nitro-substituted polycyclic aromatic hydrocarbons: A critical evaluation, 333 (1996) 193

## High throughput screening

Diffuse reflectance absorbance spectroscopy taking in chemometrics (DRASTIC). A hyperspectral FT-IR-based approach to rapid screening for metabolite overproduction, 348 (1997) 273

A colorimetric assay suitable for screening epoxide hydrolase activity, 391 (1999) 345

## Higher alcohols

Determination of the concentration of higher alcohols with enzyme coupled flow-injection analysis in model systems, 322 (1996) 131

Authentication and differentiation of irish whiskeys by higheralcohol congener analysis, 381 (1999) 257

# Highly acidic media

Selective extraction of silver(I) over palladium(II) with ketonic derivatives of calixarenes from highly concentrated nitric acid, 341 (1997) 275

## High-precision carbon isotope analysis

On-line pyrolysis of hydrocarbons coupled to high-precision carbon isotope ratio analysis, 397 (1999) 217

## High-pressure bomb

Determination of silicon in airborne particulate matter by UVvisible spectrophotometry, 342 (1997) 239

## High-pressure bomb digestion

Preparation of airborne particulate standards on PTFE-membrane filter for laser ablation inductively coupled plasma mass spectrometry, 368 (1998) 11

Determination of chromium in airborne particulate matter by high resolution and laser ablation inductively coupled plasma mass spectrometry, 389 (1999) 257

Determination of arsenic and vanadium in airborne related reference materials by inductively coupled plasma-mass spectrometry, 392 (1999) 299

# High-pressure digestion

Wet sample digestion for quantification of vanadium(V) in serum by electrothermal atomic absorption spectrometry, 386 (1999) 145

# High-purity aluminium oxide

Determination of trace impurities in high-purity aluminium oxide by high resolution inductively coupled plasma mass spectrometry, 369 (1998) 79

# **High-purity selenium**

Determination of impurities in high-purity selenium by inductively coupled plasma mass spectrometry after acetate-form anionexchange separation, 333 (1996) 51

## High-resolution inductively coupled plasma mass spectrometry

Determination of trace elements in seawater by fluorinated metal alkoxide glass-immobilized 8-hydroxyquinoline concentration and high-resolution inductively coupled plasma mass spectrometry detection, 363 (1998) 11

## High-speed countercurrent chromatography

Recent advances in peptide separation by countercurrent chromatography, 352 (1997) 411

## High-speed stirring method

Acid-catalyzed interfacial complexation in the extraction kinetics of palladium(II) with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol, 364 (1998) 53

Isomer recognizing adsorption of palladium(II)-2-(5-bromo-2-pyridylazo)-5-diethylaminophenol with diazine derivatives at the toluene-water interface, 394 (1999) 23

## High-throughput analysis

NMR analysis of multiple samples using parallel coils: improved performance using reference deconvolution and multidimensional methods, 400 (1999) 297

## High-throughput probe

Multiplex sample NMR: an approach to high-throughput NMR using a parallel coil probe, 397 (1999) 9

## High-throughput screening

Determination of peracid and putative enzymatic peracid formation by an easy colorimetric assay, 378 (1999) 293

# Highway originated pollutants

Application of pulsed laser methods to in situ probing of highway originated pollutants, 343 (1997) 93

#### Hill reaction

Thylakoid membranes-based test-system for detecting of trace quantities of the photosynthesis-inhibiting herbicides in drinking water, 391 (1999) 1

## Hippocampus

Flow-through fiber-optic ammonia sensor for analysis of hippocampus slice perfusates, 357 (1997) 79

# Histamine determination

Determination of histamine release from mast cells using a histamine-sensitive membrane electrode, 396 (1999) 189

## Histone acetylation

Comparative analysis of topographic distribution of acetylated histone H4 by using confocal microscopy and a deconvolution system, 365 (1998) 9

#### HMX

In situ detection of trinitrotoluene and other nitrated explosives in soils, 341 (1997) 63

#### H-NMI

Degradation of cellulosic materials under the alkaline conditions of a cementitious repository for low and intermediate level radioactive waste. Part I: Identification of degradation products, 398 (1999) 111

# Hollow fiber

Hollow fiber based supported liquid membrane: a novel analytical system for trace metal analysis, 350 (1997) 183

## Hollow fiber membrane

Hollow fiber membrane chromatography: A novel analytical system for trace metal separation, 369 (1998) 17

## Hollow fiber supported liquid membrane (HFSLM)

Selective separation and concentration of vanadium(V) by a chemical pumping hollow-fiber supported liquid membrane, 349 (1997) 171

#### Homoconjugation

Conjugation and proton exchange equilibria: an electrometric method for determination of heteroconjugation constants in solvents of weak proton donating and weak proton accepting properties, 384 (1999) 27

#### Homogeneity

Assessment of homogeneity of candidate reference material at the nanogram level and investigation on representativeness of single particle analysis using electron probe X-ray microanalysis, 389 (1999) 151

#### Homogeneous

A rapid method for the determination of molar ratio of fluorophore to protein by fluorescence anisotropy detection, 389 (1999) 85

#### Homogeneous catalysis

On the evaluation of turnover frequencies in unicyclic homogeneous catalysis. Experimental, numerical, and statistical aspects, 374 (1998) 67

## Homogeneous enzyme immunoassay

Dip-and-read test strips for the determination of trinitrotoluene (TNT) in drinking water, 396 (1999) 309

#### Homogeneous fluorimmunoassay

Determination of corproporphyrin in urine by using stopped-flow fluoroimmunoassay, 361 (1998) 27

Pesticide determination by stopped-flow fluoroimmunoassay using Cresyl Violet as label, 381 (1999) 147

# Homogeneous liquid-liquid extraction

Homogeneous liquid-liquid extraction of uranium(VI) from acetate aqueous solution, 387 (1999) 71

# Homologous ELISA

Easy-to-use immunoassay for the residue analysis of 2,4,5-T, 376 (1998) 37

## Hopfield model

Simple encoding of infrared spectra for pattern recognition Part 2. Neural network approach using back-propagation and associative Hopfield memory, 316 (1995) 145

#### Hormones

Simultaneous determination of follicle stimulating hormone and luteinising hormone using a multianalyte immunosensor, 310 (1995) 251

# Horseradish peroxidase

Study of the enhanced chemiluminescence from the luminol-horseradish peroxidase-hydrogen peroxide-p-coumaric acid system

- at very short times: stopped flow selective determination of p-coumaric acid in beers, 310 (1995) 399
- Hemoglobin interference with an enzyme-linked immunosorbent assay for the detection of tumor necrosis factor-alpha, 313 (1995)
- Poly(amphiphilic pyrrole)-tyrosinase-peroxidase electrode for amplified flow injection-amperometric detection of phenol, 319 (1996) 145
- Enhanced chemiluminescence kinetic ELISA of dichlorprop methyl ester, 321 (1996) 213
- Hydrogen peroxide assay by using enhanced chemiluminescence of the luminol-H<sub>2</sub>O<sub>2</sub>-horseradish peroxidase system: Comparative studies, 327 (1996) 161
- An amperometric Meldola Blue-mediated sensor high sensitive to hydrogen peroxide based on immobilization of horseradish peroxidase in a composite membrane of regenerated silk fibroin and poly(vinyl alcohol), 329 (1996) 97
- In situ biochemical reduction of interference in an amperometric biosensor with a novel heterobilayer configuration of polypyrrole/glucose oxidase/horseradish peroxidase, 329 (1996) 223
- Direct electrocatalytic determination of dissolved peroxidases, 329 (1996) 231
- Hydrogen peroxide amperometric biosensor based on a peroxidasegraphite-epoxy biocomposite, 332 (1996) 131
- Silica sol-gel immobilized amperometric biosensor for hydrogen peroxide, 335 (1996) 137
- Enzyme immunoassay with amperometric flow-injection analysis using horseradish peroxidase as a label. Application to the determination of polychlorinated biphenyls, 336 (1996) 167
- Inaccuracy of the Bradford method for the determination of protein concentration in steroid-horseradish peroxidase conjugates, 337 (1997) 93
- Comparative study of some synthesised and commercial fluorogenic substrates for horseradish peroxidase and its mimetic enzyme hemin by a flow injection method, 340 (1997) 159
- Reagentless amperometric biosensors highly sensitive to hydrogen peroxide, glucose and lactose based on N-methyl phenazine methosulfate incorporated in a Nafion film as an electron transfer mediator between horseradish peroxidase and an electrode, 344 (1997) 187
- Development of an "electrically wired" amperometric immunosensor for the determination of biotin based on a non-diffusional redox osmium polymer film containing an antibody to the enzyme label horseradish peroxidase, 345 (1997) 59
- Hydrazines probe of interaction of horseradish peroxidase with cryo-hydrogel, 353 (1997) 45
- Affinity enzymometric assay for detection of organophosphorus compounds, 357 (1997) 13
- Sol-gel horseradish peroxidase biosensor for hydrogen peroxide detection by chemiluminescence, 363 (1998) 221
- Fluorometric determination of microamounts of hydrogen peroxide with an immobilized enzyme prepared by coupling horseradish peroxidase to chitosan beads, 374 (1998) 191
- Affinity between immobilised monoclonal and polyclonal antibodies and steroid-enzyme tracers increases sharply at high surface density, 381 (1999) 133

- A reagentless amperometric biosensor based on the coimmobilization of horseradish peroxidase and methylene green in a modified zeolite matrix, 386 (1999) 31
- Functionalized inorganic-organic composite material derivated by sol-gel for construction of mediated amperometric hydrogen peroxide biosensor, 388 (1999) 71
- Hydrogen peroxide sensitive enzyme sensor based on phthalocyanine thin film, 391 (1999) 289
- A reagentless hydrogen peroxide sensor based on incorporation of horseradish peroxidase in poly(thionine) film on a monolayer modified electrode, 391 (1999) 299

## Horseradish peroxidase electrodes

Reactivities of amperometric organic phase peroxidase-modified electrodes in the presence and absence of thiourea and ethylenethiourea as inhibitors, 305 (1995) 57

## Horseradish peroxidase immobilisation

Evaluation of the adsorptive immobilisation of horseradish peroxidase on PTFE tubing in flow systems for hydrogen peroxide determination using fluorescence detection, 359 (1998) 149

#### **HOSE** codes

Using similarity searches over databases of estimated <sup>13</sup>C NMR spectra for structure identification of natural product compounds, 316 (1995) 161

#### Host-guest adduct

Optosensing of cationic surfactants based on host-guest chemistry, 370 (1998) 259

#### Hot electrons

- Room temperature phosphorescence emission in fully aqueous medium induced by injection of hot electrons into an electrolyte solution, 355 (1997) 1
- Hot electron-induced time-resolved electrogenerated luminescence of Tb(III) ions at stationary oxide-covered aluminium electrodes, 359 (1998) 71
- Electrochemiluminescent labels for applications in fully aqueous solutions at oxide-covered aluminium electrodes, 386 (1999) 1
- Hot electron-induced electrogenerated luminescence of Tl(I) at disposable oxide-covered aluminum electrodes, 398 (1999) 41

## Hot-spring water

Selective medium reactions for the 'arsenic(III)', 'arsenic(V)', dimethylarsonic acid and monomethylarsonic acid determination in waters by hydride generation on-line electrothermal atomic absorption spectrometry with in situ preconcentration on Zr-coated graphite tubes, 374 (1998) 231

#### House dust

Analysis of soil and dust samples for polychlorinated biphenyls by enzyme-linked immunosorbent assay (ELISA), 376 (1998) 67

# House heating systems

Investigation of organic pollutants from house heating systems using biogenic fuels and correlations with other exhaust gas components, 393 (1999) 131

## **Hp-binding**

Application of Western-blotting technique with chemiluminescence imaging to the study of haptoglobin type and haptoglobin complexes, 362 (1998) 113

#### HPCF

- Oligonucleotide analysis by capillary zone electrophoresis at low pH, 345 (1997) 1
- Derivatization of peptides and small proteins for improved identification and detection in capillary zone electrophoresis (CZE), 400 (1999) 181

## **HPGe** detectors

Multielement instrumental activation analysis based on gammagamma coincidence spectroscopy, 386 (1999) 181

#### HPLC

- Stationary phases for peptide analysis by high performance liquid chromatography: a review, 352 (1997) 1
- Derivatization of peptides for their determination by chromatographic methods, 352 (1997) 31
- Sample preparation and reversed phase-high performance liquid chromatography analysis of food-derived peptides, 352 (1997)
- HPLC in the characterisation of conformational species of linear gramicidins, 352 (1997) 309
- Size-exclusion high-performance liquid chromatography of peptides: a review, 352 (1997) 387
- Determination of cobalamins and cobinamides by microbore reversed-phase HPLC with spectrophotometric, ion-spray ionization MS and inductively coupled plasma MS detection, 359 (1998) 227
- Intelligent peptide-mapping method for recombinant human tissuetype plasminogen activator by lysyl-endopeptidase digestion, 365 (1998) 241
- Two-way, unfolded three-way and three-mode partial least squares calibration of diode array HPLC chromatograms for the quantitation of low-level pharmaceutical impurities, 384 (1999) 71
- The effects of surfactants on the analysis of organic pollutants in natural waters, 392 (1999) 39
- Measurement of enantiomeric purity by ratio chromatograms with a photometric detector using quartz plates as a multiple retarder, 396 (1999) 125
- Effect of pressure-induced ionization, partitioning, and complexation on solute retention in reversed-phase liquid chromatography, 397 (1999) 163
- Immunochemical test to monitor human exposure to polycyclic aromatic hydrocarbons: urine as sample source, 399 (1999) 115

## **HPLC** analysis

Evaluation of a highly sensitive amperometric biosensor with low cholinesterase charge immobilized on a chemically modified carbon paste electrode for trace determination of carbamates in fruit, vegetable and water samples, 399 (1999) 37

## HPLC-DAD

Resolution of overlapping peaks in HPLC with diode array detection by application of partial least squares calibration to cross-sections of spectrochromatograms, 348 (1997) 177

#### HPLC-ECD

Determination of glutathione in vivo by microdialysis using liquid chromatography with a cobalt hexacyanoferrate chemically modified electrode, 391 (1999) 307

## HPLC-inductively coupled plasma mass spectrometry

Nuclide analysis of an irradiated tantalum target of a spallation neutron source using high performance ion chromatography and inductively coupled plasma mass spectrometry, 387 (1999) 145

#### HPO

Peroxidase based amperometric biosensors for the determination of γ-aminobutyric acid, 328 (1996) 41

## H-point method

Evaluation and elimination of the blank bias error using the H-point standard additions method (HPSAM) in the simultaneous spectrophotometric determination of two analytes, 348 (1997) 39

## H-point standard additions method

H-Point standard additions method for resolution of binary mixtures with simultaneous addition of both analytes, 315 (1995) 267

Simultaneous determination of cephalexin and cefadroxil by using the coupling technique of synchronous fluorimetry and H-point standard additions method, 325 (1996) 195

A comparison of various calibration techniques applied to the ninhydrin-cefoxitin determination, 334 (1996) 199

A new derivatization procedure for the determination of cephalexin with 1,2-naphthoquinone 4-sulphonate in pharmaceutical and urine samples using solid-phase extraction cartridges and UV-visible detection, 370 (1998) 115

#### HPSEC

Separation of a casein hydrolyzate by HPSEC with a new mobile phase and characterization of peptides by FABMS, 352 (1997)

An iterative method for solving inverse problems arising from dispersion in high pressure size exclusion chromatography, 392 (1999) 183

## HRGC-MS

Comparison of different drying, extraction and detection techniques for the determination of priority polycyclic aromatic hydrocarbons in background contaminated soil samples, 383 (1999) 263

#### HRP

Immunoenzymatic application of a redox potential biosensor, 335 (1996) 127

# HRP-labeled Au colloids

Hydrogen peroxide sensor based on horseradish peroxidase-labeled Au colloids immobilized on gold electrode surface by cysteamine monolayer, 391 (1999) 73

#### hTSH

An enzymatic amplification cycle for high sensitive immunoassay, 328 (1996) 27

## Human biliary proteins

Electrophoretic analysis of proteins in bile, 383 (1999) 185

## Human biomonitoring (HBM)

Application of immunological methods for the determination of environmental pollutants in human biomonitoring. A review, 311 (1995) 383

Immunochemical test to monitor human exposure to polycyclic aromatic hydrocarbons: urine as sample source, 399 (1999) 115

#### Human blood

Voltammetric determination of serotonin in human blood using a chemically modified electrode, 369 (1998) 103

## Human blood serum

Determination of polynuclear aromatic hydrocarbons in human blood serum by proteolytic digestion — direct immersion SPME, 396 (1999) 303

#### **Human** breath

Determination of CO<sub>2</sub>(g) by enhancement of luminol-cobalt(II) phthalocyanine chemiluminescence: Analysis of atmospheric air and human breath, 329 (1996) 305

## Human chorionic gonadotropin

Highly sensitive immunological assays for human chorionic gonadotrophin and prostatic acid phosphatase using phenacyl phosphate as a chemiluminescent label, 309 (1995) 221

Chemiluminescence assay of alkaline phosphatase using cortisol-21-phosphate as substrate and its application to enzyme immunoassays, 337 (1997) 335

Chemiluminescent flow injection determination of alkaline phosphatase and its applications to enzyme immunoassays, 339 (1997) 139

Bioluminescent enzyme immunoassay using thermostable mutant luciferase and acetate kinase as a labelled enzyme, 361 (1998) 19

Determination of β-HCG using amperometric immunosensors based on a conducting immunocomposite, 396 (1999) 181

## **Human exposure**

Expanding the role of environmental immunoassays: technical capabilities, regulatory issues, and communication vehicles, 376 (1998) 55

## Human growth hormone

Chemiluminescence assay of alkaline phosphatase using cortisol-21-phosphate as substrate and its application to enzyme immunoassays, 337 (1997) 335

Bioluminescent enzyme immunoassay using thermostable mutant luciferase and acetate kinase as a labelled enzyme, 361 (1998) 19

#### Human hair

Determination of lead and cadmium in human hair by atomic absorption spectrometric procedures after solid phase extraction, 337 (1997) 329

Rapid acid leaching and slurry sampling procedures for the determination of methyl-mercury and total mercury in human hair by electrothermal atomic absorption spectrometry, 398 (1999)

## Human hepatitis delta virus

Minimization of genomic human hepatitis delta virus ribozyme, 365 (1998) 309

## **Human metallothioneins**

Characterisation of human metallothioneins from foetal liver and adult kidney using differential pulse polarography, 350 (1997) 305

## Human parathyroid hormone

Kinetic study of methionine oxidation in human parathyroid hormone, 365 (1998) 301

## **Human perspiration**

Novel instrumentation for determination of ethanol concentrations in human perspiration by gas chromatography and a good interrelationship between ethanol concentrations in sweat and blood, 365 (1998) 259

## Human protein C

Development of an optimized peptide map for recombinant activated human protein C by means of an experimental design strategy, 352 (1997) 221

#### Human serum

The fabrication and performance of an Ag/AgCl reference electrode in human serum, 330 (1996) 167

## Human serum albumin

New method of simultaneous and non-destructive determination of human serum albumin and globulin, 316 (1995) 387

Binding of sulfamethoxazole to human serum albumin studied by a combined technique of microdialysis with liquid chromatography, 342 (1997) 159

Novel surface plasmon resonance sensor chip functionalized with organic silica compounds for antibody attachment, 368 (1998) 71

#### Human serum and plaque

Evaluation of ticlopidine in human serum and plaque by liquid chromatography/atmospheric pressure chemical ionization mass spectrometry, 354 (1997) 87

#### Human urine

Determination of physiological noble metals in human urine using liquid-liquid extraction and Zeeman electrothermal atomic absorption spectrometry, 340 (1997) 277

Fast automated determination of toxicologically relevant arsenic in urine by flow injection-hydride generation atomic absorption spectrometry, 349 (1997) 313

#### Human-scalp hair

Matching and discrimination of single human-scalp hairs by FT-IR micro-spectroscopy and chemometrics, 392 (1999) 223

# **Humic acid preparation**

Electrochemical behavior and determination of gold at chemically modified carbon paste electrode by the ethylenediamine fixed humic acid preparation, 361 (1998) 133

## Humic acids

Interpretation of the acid-base equilibrium of humic acid by a continuous pK distribution and electrostatic model, 302 (1995) 365

Theory and application of chemically modified carbon paste electrode to copper speciation determination, 305 (1995) 42

Application of potentiometric stripping analysis for speciation of copper complexes with adsorbable ligands on the mercury electrode, 314 (1995) 241

Hollow fiber cartridges for removal of particulate matter from natural waters prior to matrix isolation and trace metal enrichment using an 8-quinolinol chelating ion exchanger in a flow system, 316 (1995) 305

Chromium(III) binding abilities of humic acids, 317 (1995)

Copper(II) binding abilities of molecular weight fractionated humic acids and their mixtures, 322 (1996) 173

Immobilization of aqueous pyrene by dissolved humic acid, 356 (1997) 295

Comparison of methodologies for determination of carboxylic and phenolic groups in humic acids, 364 (1998) 223

Mechanism of metribuzin herbicide sorption by humic acid samples from peat and vermicompost, 368 (1998) 155

Study of soil humic substances by cross-polarization magic angle spinning <sup>13</sup>C nuclear magnetic resonance and pyrolysis-capillary gas chromatography, 378 (1999) 177

Characterization and differentiation of humic acids and fulvic acids in soils from various regions of China by nuclear magnetic resonance spectroscopy, 395 (1999) 199

Europium complexes investigations in natural waters by timeresolved laser-induced fluorescence, 396 (1999) 253

#### Humic and fulvic substances

Size fractionation of humic substances: Effect on protonation and metal binding properties, 334 (1996) 27

## **Humic matter**

Dynamic properties of humic matter by dynamic light scattering and voltammetry, 329 (1996) 15

# Humic substances

Molecular size effects on carboxyl acidity: implications for humic substances, 304 (1995) 187

Experimental determination of partial specific volumes of humic substances in aqueous solutions, 314 (1995) 149

The interaction of some pesticides and herbicides with humic substances, 327 (1996) 191

Molecular size distribution and spectroscopic properties of aquatic humic substances, 337 (1997) 133

Water solubility enhancement of pyrene in the presence of humic substances, 337 (1997) 351

Correction of fluorescence inner filter effects and the partitioning of pyrene to dissolved organic carbon, 338 (1997) 155

Interaction of Hg(II) with soil-derived humic substances, 341 (1997)

Modification of the van den Berg/Ruzic method for the investigation of complexation parameters of natural waters, 354 (1997)

Water solubility enhancement of pyrene in the presence of humic substances, by S. Tanaka et al.: comments, 355 (1997) 101

The effects of solution conditions on partial specific volumes of humic substances, 362 (1998) 299

Diffusional characteristics of hydrogels used in DGT and DET techniques, 398 (1999) 329

## Humidity

Toward development of a humidity correction algorithm for surface acoustic wave sensors Part 4. The effect of coating mass, relative humidity and temperature on the isosteric heat of adsorption of benzene, toluene, 2-nitrotoluene and 2,4-dinitrotoluene onto platinum/lead-coated piezoelectric crystals, 343 (1997) 215

#### **Humidity correction algorithm**

Development of humidity correction algorithm for surface acoustic wave sensors Part 2. Mathematical model for water and nitrobenzene co-adsorption on aminopropyltriethoxysilane coated surface acoustic wave sensors, 302 (1995) 255

Toward development of a humidity correction algorithm for surface acoustic wave sensors Part 3. Water, nitrobenzene and 2-nitrotoluene adsorption on platinum/lead coated piezoelectric sensors, 317 (1995) 281

## **Humidity** sensor

Humidity-sensitive optode membrane based on a fluorescent dye immobilized in gelatin film, 378 (1999) 127

#### Hybrid material

Affinity adsorption separation of mutagenic molecules by polyacrylamide hydrogels comprising double-stranded DNA, 365 (1998) 101

Functionalized inorganic-organic composite material derivated by sol-gel for construction of mediated amperometric hydrogen peroxide biosensor, 388 (1999) 71

## Hybrid sensor

Hybrid tissue/enzyme biosensor for pectin, 306 (1995) 123

## Hybridization

Stripping potentiometric transduction of DNA hybridization processes, 326 (1996) 141

Voltammetric determination of sequence-specific DNA by electroactive intercalator on graphite electrode, 335 (1996) 239

Sequence-specific electrochemical biosensing of M. tuberculosis DNA, 337 (1997) 41

Utilization of an osmium complex as a sequence recognizing material for DNA-immobilized electrochemical sensor, 345 (1997) 45

DNA electrochemical biosensors for environmental monitoring. A review, 347 (1997) 1

Disposable DNA electrochemical biosensors for environmental monitoring, 387 (1999) 297

Considerations for the quantitative transduction of hybridization of immobilized DNA, 400 (1999) 73

#### Hybridoma

Preparation of monoclonal antibody against D-3-methoxy-4-hydroxyphenylglycol, 365 (1998) 129

#### Hybrids

Quantitative analysis for solid-phase hybridization reaction and binding reaction of DNA binder to hybrids using a quartz crystal microbalance, 327 (1996) 29

#### Hydrated electron

X-ray irradiated sodium chloride as an excitation source for the sensitized terbium(III)-specific chemiluminescence of aromatic Tb(III) chelates in aqueous solutions, 347 (1997) 333

Luminol-specific extrinsic lyoluminescence of X-ray irradiated sodium chloride, 349 (1997) 1

Hydrated electron-induced chemiluminescence of thallium(I) ion, 382 (1999) 233

Hot electron-induced electrogenerated luminescence of Tl(1) at disposable oxide-covered aluminum electrodes, 398 (1999) 41

# Hydrated ethyl alcohol

Flow-injection conductometric determination of acidity in industrial hydrated ethyl alcohol, 366 (1998) 81

## Hydrazide

A cyanine fluorophore with a hydrazide functionality as labelling reagent for aldehydes in liquid chromatography, 311 (1995) 47

#### Hydrazine

Partial least-squares regression for multicomponent kinetic determinations in linear and non-linear systems, 303 (1995) 309

Solid-phase spectrophotometric determination of trace amounts of hydrazine at sub-ng ml<sup>-1</sup> level, 353 (1997) 115

Flow injection chemiluminescence determination of hydrazine, 358 (1998) 121

#### Hydrazine compounds oxidation

Catalytic oxidation and flow detection of hydrazine compounds at a nafion/ruthenium(III) chemically modified electrode, 354 (1997) 333

## Hydrazine in drinking water and river water

Catalytic oxidation and flow detection of hydrazine compounds at a nafion/ruthenium(III) chemically modified electrode, 354 (1997) 333

## Hydrazines probe

Hydrazines probe of interaction of horseradish peroxidase with cryo-hydrogel, 353 (1997) 45

#### Hydride generation

Time-based device used for the determination of tin by hydride generation flow injection atomic absorption techniques, 308 (1995) 339

Comparison of plumbane and tetraethyllead for the determination of lead by inductively coupled plasma atomic emission spectrometry, 309 (1995) 369

Applications of a slotted tube atom trap and flame atomic absorption spectrometry: determination of bismuth in copper-based alloys with and without hydride generation, 311 (1995) 93

A flowing electrolytic hydride generator for continuous sample introduction in atomic spectrometry, 316 (1995) 129

Determination of butyltin compounds in marine biological samples by enzymatic hydrolysis and HG-GC-QFAAS detection, 327 (1996) 287

Separation and determination of trace inorganic germanium in βcarboxyethylgermanium sesquioxide by filtration chromatography and hydride generation-graphite furnace atomic absorption spectrometry, 330 (1996) 53

- Determination of germanium by isotope dilution-hydride generation inductively coupled plasma mass spectrometry, 332 (1996) 277
- Application of molecular emission cavity analysis to the determination of tin in various samples based on hydride generation, 333 (1996) 295
- Determination of arsenic by hydride generation gas diffusion flow injection analysis with electrochemical detection, 334 (1996) 193
- Stability studies of arsenate, monomethylarsonate, dimethylarsinate, arsenobetaine and arsenocholine in deionized water, urine and clean-up dry residue from urine samples and determination by liquid chromatography with microwave-assisted oxidation-hydride generation atomic absorption spectrometric detection, 340 (1997) 209
- Determination of dimethylarsinic acid by hydride generation gas phase molecular absorption spectrometry, 343 (1997) 39
- Fast automated determination of toxicologically relevant arsenic in urine by flow injection-hydride generation atomic absorption spectrometry, 349 (1997) 313
- Two methods for the speciation analysis of mercury in fish involving microwave-assisted digestion and gas chromatography-atomic emission spectrometry, 350 (1997) 273
- Photoreduction-hydride generation: a new on-line system for the determination of selenate and selenite, 353 (1997) 91
- Optimization of hydride generation atomic fluorescence spectrometry for the determination of trace amounts of germanium: emphasis on acidity and interferences, 373 (1998) 303
- Determination of five selenium compounds in urine by liquid chromatography with focused microwave assisted digestion and hydride generation-atomic absorption spectrometric detection, 374 (1998) 241
- Off-line separation and determination of inorganic arsenic species in natural water by high resolution inductively coupled plasma mass spectrometry with hydride generation combined with reaction of arsenic(V) and L-cysteine, 375 (1998) 167
- Determination of monomethylarsenous acid by hydride generation gas phase molecular absorption spectrometry, 381 (1999) 331
- Speciation of antimony(III) and antimony(V) using hydride generation inductively coupled plasma atomic emission spectrometry combined with the rate of pre-reduction of antimony, 386 (1999) 297
- Determination of trimethylselenonium ion by flow injection hydride generation atomic absorption spectrometry, 398 (1999) 273

## **Hydride generation AAS**

Cysteine enhancement of the cryogenic trap hydride AAS determination of dissolved arsenic species, 333 (1996) 89

## Hydrocarbons

- Flow injection spectrophotometric determination of total carbonyls in hydrocarbons by reaction with vanillin, 351 (1997) 281
- Influence of ionization energy on charge-transfer ionization in matrix-assisted laser desorption/ionization mass spectrometry, 397 (1999) 235

## Hydrochloride

The spectrophotometric determination of bismuth after extraction of protriptylinium tetraiodobismuthate(III), 334 (1996) 209

## Hydrochlorothiazide

- Application of neural networks for response surface modeling in HPLC optimization, 364 (1998) 265
- Partial least-squares method in analysis by differential pulse polarography. Simultaneous determination of amiloride and hydrochlorothiazide in pharmaceutical preparations, 381 (1999)
- Chemiluminescence-based liquid chromatographic determination of hydrochlorothiazide and captopril, 386 (1999) 257

## Hydrodesulphurization

Study on the vaporisation of sulphur-containing amino acids in a hydrogen flame by use of molecular emission cavity analysis and liquid chromatography, 309 (1995) 163

## Hydrodynamic injection

Flow injection analysis-capillary electrophoresis system with hydrodynamic injection, 378 (1999) 55

## Hydrofluoric acid

Use of hydrofluoric acid to decrease the background signal caused by sodium chloride in electrothermal atomic absorption spectrometry, 396 (1999) 279

# Hydrofluoric acid treatment

Critical discussion on the need for an efficient mineralization procedure for the analysis of plant material by atomic spectrometric methods, 358 (1998) 85

## Hydrogel

- A disposable amperometric gas sensor for sulphur-containing compounds based on a chemically modified screen printed carbon electrode coated with a hydrogel, 342 (1997) 199
- Diffusional characteristics of hydrogels used in DGT and DET techniques, 398 (1999) 329

## Hydrogen bond interactions

Linear solvation energy relationships in normal phase liquid chromatography based on retention data on silica in 2-propanol/ hexane eluents, 342 (1997) 51

## Hydrogen bonding

- Solvatochromic studies of the surface polarity of silica under normal-phase conditions, 312 (1995) 127
- A potentiometric study of acid-base equilibria of substituted pyridine N-oxides in nitrobenzene, 335 (1996) 147
- A study of the permeability properties of surfactant modified poly(vinyl chloride) membranes, 350 (1997) 67

## Hydrogen bonds

- Chemical bonds studied with functionalized atomic force microscopy tips, 307 (1995) 365
- Linear and non-linear modelling techniques for the investigation of spectrum-structure relationships, 348 (1997) 471

# Hydrogen cyanide gas detection

An automatic measurement of hydrogen cyanide in air by a monitoring tape method, 398 (1999) 305

## **Hydrogen** evolution

Assessment of linearity between steady-state limiting current and analytical concentration of weak acids in the reaction of hydrogen evolution, 331 (1996) 117

Steady state voltammetry in the process of hydrogen evolution in buffer solutions, 361 (1998) 141

## Hydrogen flame

Determination of microgram amounts of free sulphur in transition metal sulphides using solvent extraction and molecular emission cavity analysis, 327 (1996) 139

# Hydrogen peroxide

Determination of quinolinic acid in human urine by liquid chromatography with fluorimetric detection, 302 (1995) 179

Chemiluminometric enzyme sensors for flow-injection analysis, 303 (1995) 109

Internal enzyme fiber-optic biosensors for hydrogen peroxide and glucose, 304 (1995) 147

A reagentless amperometric biosensor for hydrogen peroxide determination based on asparagus tissue and ferrocene mediation, 309 (1995) 35

Development of a novel chemiluminescent probe, 4-(5',6'-dimethoxybenzothiazolyl) phthalhydrazide, 309 (1995) 211

Hemoglobin interference with an enzyme-linked immunosorbent assay for the detection of tumor necrosis factor-alpha, 313 (1995) 1

Improved titanium method for determination of atmospheric H<sub>2</sub>O<sub>2</sub>, 315 (1995) 225

Peroxidase-incorporated hydrophilic polythiophene electrode for the determination of hydrogen peroxide in acetonitrile, 318 (1996) 297

Amperometric determination of hydrogen peroxide by direct and catalytic reduction at a copper electrode, 319 (1996) 59

Hydrogen peroxide assay by using enhanced chemiluminescence of the luminol-H<sub>2</sub>O<sub>2</sub>-horseradish peroxidase system: Comparative studies, 327 (1996) 161

An amperometric Meldola Blue-mediated sensor high sensitive to hydrogen peroxide based on immobilization of horseradish peroxidase in a composite membrane of regenerated silk fibroin and poly(vinyl alcohol), 329 (1996) 97

Biosensoring of hydrogen peroxide using new methylene blue N incorporated in a montmorillonite-modified horseradish peroxidase immobilization matrix as an electron shuttle, 332 (1996) 73

Hydrogen peroxide amperometric biosensor based on a peroxidasegraphite-epoxy biocomposite, 332 (1996) 131

Comparative study of some synthesised and commercial fluorogenic substrates for horseradish peroxidase and its mimetic enzyme hemin by a flow injection method, 340 (1997) 159

Reagentless amperometric biosensors highly sensitive to hydrogen peroxide, glucose and lactose based on N-methyl phenazine methosulfate incorporated in a Nafion film as an electron transfer mediator between horseradish peroxidase and an electrode, 344 (1997) 187

Solvent-resistant carbon electrodes screen printed onto plastic for use in biosensors, 347 (1997) 9 Electrocatalytic oxidation of H<sub>2</sub>O<sub>2</sub> at an oxycobalt film modified glassy carbon electrode for fermentation monitoring, 351 (1997) 133

Simultaneous superoxide and hydrogen peroxide detection in peroxidase/NADH oscillator, 354 (1997) 315

Peroxyoxalate chemiluminescence in aqueous solutions: Coupling of immobilized enzyme reactors and 1,1'-oxalyldiimidazole chemiluminescence reaction to flow-injection analysis and liquid chromatographic systems, 357 (1997) 111

Determination of hydrogen peroxide using a potassium hexacyanoferrate(III) modified titanium dioxide electrode, 358 (1998)

Synthesis and spectroscopic properties of new luminol-linked calixarene derivatives, 362 (1998) 121

Peroxide analysis in laundry detergents using liquid chromatography, 363 (1998) 97

Spectrophotometric determination of hydrogen peroxide in rainwater, 370 (1998) 279

Flow injection chemiluminescent determination of trace amounts of hydrogen peroxide in snow-water using KIO<sub>4</sub>-K<sub>2</sub>CO<sub>3</sub> system, 371 (1998) 171

Shipboard determination of hydrogen peroxide in the western Mediterranean sea using flow injection with chemiluminescence detection, 371 (1998) 205

Chemiluminescence flow-sensing system for hydrogen peroxide with immobilized reagents, 372 (1998) 357

Fluorometric determination of microamounts of hydrogen peroxide with an immobilized enzyme prepared by coupling horseradish peroxidase to chitosan beads, 374 (1998) 191

Shipboard determination of hydrogen peroxide in the western Mediterranean sea using flow injection with chemiluminescence detection, 377 (1998) 145

Study and analytical application of bromopyrogallol red as a hydrogen donor substrate for peroxidase, 379 (1999) 63

Measurement and control of hydrogen peroxide concentration in alkaline solution by means of amperometric sensor system, 385 (1999) 423

Selective and sensitive spectrophotometric determination of total vanadium with hydrogen peroxide and 4-(2-pyridylazo)-resorcinol, 389 (1999) 275

Highly sensitive chemiluminescence flow-injection detection of the red tide phytoplankton *Heterosigma carterae*, 390 (1999) 237

Hydrogen peroxide sensor based on horseradish peroxidase-labeled Au colloids immobilized on gold electrode surface by cysteamine monolayer, 391 (1999) 73

Kinetic method for the determination of iron(II, III) by its catalytic effect on the oxidation of 3-methyl-2-benzothiazolinone hydrazone with hydrogen peroxide, 394 (1999) 55

Disposable creatinine sensor based on thick-film hydrogen peroxide electrode system, 394 (1999) 225

Glucose microsensors based on carbon paste enzyme electrodes modified with cupric hexacyanoferrate, 395 (1999) 11

## Hydrogen peroxide amperometric sensor

PFeW<sub>11</sub>-doped polymer film modified electrodes and their electrocatalytic activity for H<sub>2</sub>O<sub>2</sub> reduction, 385 (1999) 111

## Hydrogen peroxide detection

Hydrogen peroxide – sensitive enzyme sensor based on phthalocyanine thin film, 391 (1999) 289

## Hydrogen peroxide determination

Sol-gel horseradish peroxidase biosensor for hydrogen peroxide detection by chemiluminescence, 363 (1998) 221

Electrochemical metallisation of carbon electrodes, 373 (1998)

Application of iron-tetrasulfonatophthalocyanine as a new mimetic peroxidase in the determination of hydrogen peroxide with phydroxyphenylpropionic acid as a substrate, 381 (1999) 175

## Hydrogen peroxide sensor

A reagentless hydrogen peroxide sensor based on incorporation of horseradish peroxidase in poly(thionine) film on a monolayer modified electrode, 391 (1999) 299

# Hydrogen phosphate

Polymeric membrane phosphate sensitive electrode based on binuclear organotin compound, 338 (1997) 209

## Hydrogen sulphide

Selective determination of gas dialysable components in complex sample solutions using triangle programmed coulometric titration in continuous flow systems., 324 (1996) 115

A disposable amperometric gas sensor for sulphur-containing compounds based on a chemically modified screen printed carbon electrode coated with a hydrogel, 342 (1997) 199

Simple detector for oral malodour based on spectrofluorimetric measurements of hydrogen sulphide in mouth air, 398 (1999) 23

## Hydrogenation

Sulphur group analysis in solid matrices by atmospheric pressuretemperature programmed reduction, 395 (1999) 143

#### Hydrolases

Determination of peracid and putative enzymatic peracid formation by an easy colorimetric assay, 378 (1999) 293

## Hydrolysis

Reactions of temazepam in acidic aqueous solution via oxygen-18labeled product analysis by mass spectrometry, 309 (1995) 307

Electrochemical investigations of reactive dyes; polarographic determination of anthraquinone-based chlorotriazine dyes, 315 (1995) 41

Studies of platinum(II) compounds in aqueous solution. Part 1.  $K_2PtCl_4$ , 350 (1997) 203

Sulfosuccinimidyl 4-(N-maleimidomethyl)-1-cyclohexane carboxylate as a bifunctional immobilization agent. Optimization of the coupling conditions, 361 (1998) 33

Polarographic and voltammetric determination of triazine-based reactive azo dyes with 4-carboxypyridyl and 1,4-diazabicy-clo[2,2,2]octanyl (DABCO) leaving groups, 362 (1998) 235

## Hydrolysis degree

Hydrolysis of hemoglobin surveyed by infrared spectroscopy . II. Progress predicted by chemometrics, 396 (1999) 241

## Hydrolyzate

Separation of a casein hydrolyzate by HPSEC with a new mobile phase and characterization of peptides by FABMS, 352 (1997) 399

## Hydrometallurgical processing of gold ores

Metal cyanide control in hydrometallurgical processing of gold ores by multivariate calibration procedures, 353 (1997) 123

## Hydrophilic compounds

In vitro microdialysis of hydrophilic and lipophilic compounds, 355 (1997) 75

## Hydrophilicity

Separation of sets of mono- and diphosphorylated peptides by reversed-phase high performance liquid chromatography, 352 (1997) 327

## **Hydrophobic proteins**

Electrophoresis of hydrophobic proteins, 383 (1999) 101

## Hydrophobicity

Micellar electrokinetic chromatography of highly hydrophobic peptides, 372 (1998) 273

## 8-Hydroquinoline

Synthesis and characterisation of 8-hydroxyquinoline-bovine serum albumin conjugates as metal ion chelating proteins, 378 (1999) 225

## Hydroquinone

A disposable amperometric immunosensor for 2,4-dichlorophenoxyacetic acid, 304 (1995) 361

Zucchini crude extract-palladium-modified carbon paste electrode for the determination of hydroquinone in photographic developers, 398 (1999) 145

# Hydrostatic pressure

Effects of separation potential, hydrostatic pressure and auxiliary electroosmotic pumping on a suppressed conductometric capillary electrophoresis separation system, 394 (1999) 1

## Hydrous magnesium oxide filter

Determination of <sup>60</sup>Co in environmental water samples by a hydrous magnesium oxide filter, 318 (1996) 391

#### Hydroxamic acids

Supercritical fluid chromatography and extraction of Fe(III) with hydroxamic acids, 346 (1997) 93

Spectrophotometric assay of aliphatic monohydroxamic acids and  $\alpha$ -,  $\beta$ -, and  $\gamma$ -aminohydroxamic acids in aqueous medium, 353 (1997) 359

# Hydroxide

Simultaneous and automatic determination of hydroxide and carbonate in aluminate solutions by a micro-titration method, 388 (1999) 219

## Hydroxide analysis

Fundamental baseline variations in aqueous near-infrared analysis, 394 (1999) 135

## 2-Hydroxybenzhydroxamate

Metalloporphyrin-based polymer membrane electrode with high selectivity for 2-hydroxybenzhydroxamate, 321 (1996) 11

## 2-Hydroxybiphenyl

Proton-transfer kinetics of photoexcited 2-hydroxybiphenyl in aqueous methanol solutions, 303 (1995) 25

#### 7-Hydroxycoumarin-4-acetic acid

Fluorimetric-enzymatic determination of glucose based on labelled glucose oxidase, 368 (1998) 97

## 2-hydroxy-2'-6'-diethylacetanilide

An enzyme immunoassay for mutagenic metabolites of the herbicide alachlor, 376 (1998) 103

## Hydroxyethyl methacrylate-methyl methacrylate copolymer

A thyroid-stimulating hormone immuno-electrode, 325 (1996) 87

#### Hydroxyethylamine

Experimental evidence that hydroxyethylcarbamic acid is not a major product of the reaction between hydroxyethylamine and CO<sub>2</sub> in the presence of water, 356 (1997) 93

#### 3-Hydroxyflavone

Determination of triphenyltin in sea water samples by liquid chromatography with fluorimetric detection, 302 (1995) 185

## 5-hydroxyindole-3-acetic acid

Determination of 5-hydroxytryptamine (serotonin) and related indoles by flow injection analysis with acidic potassium permanganate chemiluminescence detection, 362 (1998) 131

# 5-Hydroxyindoles

6-Aminomethylphthalhydrazide as a highly sensitive chemiluminescence derivatization reagent for 5-hydroxyindoles in liquid chromatography, 346 (1997) 175

#### Hydroxyl radicals

Application of electrochemical and spin trapping techniques in the investigation of hydroxyl radicals, 389 (1999) 213

#### Hydroxylamine

Partial least-squares regression for multicomponent kinetic determinations in linear and non-linear systems, 303 (1995) 309

# 5-Hydroxymethyl-2-furaldehyde

Liquid chromatographic determination of 2-furaldehyde and 5hydroxymethyl-2-furaldehyde in beer, 306 (1995) 57

## 3-Hydroxy-4'-N.N-dimethylaminoflayone

Solvatochromogenic flavone dyes for the detection of water in acetone, 383 (1999) 299

## 17a-Hydroxyprogesterone

Chemiluminescent flow injection determination of alkaline phosphatase and its applications to enzyme immunoassays, 339 (1997) 139

## Hydroxyproline and proline

Simultaneous determination of serum and urinary hydroxyproline and proline by liquid chromatography using two fluorescent labeling reagents, 365 (1998) 219

## 8-Hydroxyquinoline

Immobilized soft-metal affinity system for amino acids based on an 8-hydroxyquinoline-Pd(II) complex; characterization using glycine as a model, 315 (1995) 339

# 8-hydroxyquinoline immobilized on fluorinated metal alkoxide glass

Determination of trace elements in seawater by fluorinated metal alkoxide glass-immobilized 8-hydroxyquinoline concentration and high-resolution inductively coupled plasma mass spectrometry detection, 363 (1998) 11

#### 5-hydroxytryptamine

Determination of 5-hydroxytryptamine (serotonin) and related indoles by flow injection analysis with acidic potassium permanganate chemiluminescence detection, 362 (1998) 131

# 5-hydroxytryptophan

Determination of 5-hydroxytryptamine (serotonin) and related indoles by flow injection analysis with acidic potassium permanganate chemiluminescence detection, 362 (1998) 131

## Hyperlipoproteinemia

Application of electrophoretic techniques to the diagnosis of disorders of lipoprotein metabolism. Examples at the levels of lipoproteins and apolipoproteins, 383 (1999) 169

## Hypermedia creation

Automatic generation of hypermedia, 348 (1997) 465

## Hyperpolarizability

General equation for determining the dissociation constants of polyprotic acids and bases from additive properties. Part II. Applications, 390 (1999) 267

## Hyphenated techniques

Photoreduction-hydride generation: a new on-line system for the determination of selenate and selenite, 353 (1997) 91

# Hypobromite

Titrations with electrogenerated hypobromite in the diffusion layer of interdigitated microelectrode array, 374 (1998) 283

## Hypochromic effects

Ultraviolet detector response of glycine and alanine homopeptides: Some specific features in capillary electrophoresis, 372 (1998) 257

# Hypoxanthine

Chemically amplified xanthine and hypoxanthine sensors based on substrate recycling between the enzyme-substrate complex and substrate, 302 (1995) 21

Kinetics and performance of a mediated biosensor for hypoxanthine using deflavo xanthine oxidase, 319 (1996) 325

Adsorptive stripping voltammetric behaviour of hypoxanthine, 328 (1996) 47

Highly sensitive chemiluminescence flow injection analysis system using microbial peroxidase and a photodiode detector, 329 (1996) 127

Silk fibroin/cellulose acetate membrane electrodes incorporating xanthine oxidase for the determination of fish freshness, 369 (1998) 245

## Hypoxanthine-xanthine oxidase

On-line screening method for antioxidants by liquid chromatography with chemiluminescence detection, 383 (1999) 221

## Hysteresis

Humic substances' proton-binding equilibria: assessment of errors and limitations of potentiometric data, 392 (1999) 333

# I

#### Ibuprofen

Sequential-injection system for drug-dissolution studies of ibuprofen tablets and sustained-release formulations, 358 (1998) 103

#### Ice

- Determination of lead isotopic ratios in Greenland and Antarctic snow and ice at picogram per gram concentrations, 311 (1995)
- Measurement of bismuth at pg g<sup>-1</sup> concentrations in snow and ice samples by thermal ionisation mass spectrometry, 347 (1997) 351

#### Ice core

Simple procedure for ion chromatographic determination of anions and cations at trace levels in ice core samples, 389 (1999) 21

#### ICP-AES

- Determination of copper, iron, molybdenum and silicon in hydrometallurgically roasted molybdenite concentrate solution by inductively coupled plasma atomic emission spectrometry, 349 (1997) 327
- A chelating resin containing 4-(2-thiazolylazo)resorcinol as the functional group. Chromatographic application to the preconcentration and separation of some trace metal ions including uranium, 351 (1997) 57
- Inductively coupled plasma-atomic emission spectral fitting analysis of rare-earth elements in ion-adsorption type ores, 362 (1998) 241
- On-line preconcentration system for lanthanum determination in urine using FI-ICP-AES, 366 (1998) 201
- Chemical separation and inductively coupled plasma—atomic emission spectrometric determination of seventeen trace metals in thorium oxide matrix using a novel extractant Cyanex-923, 370 (1998) 163
- Determination of metals in highly saline matrices by solid-phase extraction and slurry-sampling inductively coupled plasma-atomic emission spectrometry, 375 (1998) 293
- Speciation of copper and manganese in milk by solid-phase extraction/inductively coupled plasma-atomic emission spectrometry, 375 (1998) 299
- Optical fibres: atomic spectroscopic methods for the determination of fluoride glasses composition, 383 (1999) 243

Rapid determination of sulfur in steel by electrolytic dissolution – inductively coupled plasma atomic emission spectrometry, 394 (1999) 293

## ICP-MS

- SI-traceable values for cadmium and lead concentration in the candidate reference material, MURST-ISS A1 Antarctic sediment, by combination of ICP-MS with isotope dilution, 346 (1997) 17
- Simultaneous determination of neodymium and samarium in silicate rocks and minerals by isotope dilution inductively coupled plasma mass spectrometry: Results on twenty geochemical reference samples, 351 (1997) 325
- Improvement of Tc separation procedure using a chromatographic resin for direct measurement by ICP-MS, 357 (1997) 1
- Development of a method for the systematic use of bilinear multivariate calibration methods for the correction of interferences in inductively coupled plasma-mass spectrometry, 358 (1998) 205
- Accurate determination of <sup>87</sup>Rb/<sup>86</sup>Sr and <sup>147</sup>Sm/<sup>144</sup>Nd ratios by inductively-coupled-plasma mass spectrometry in isotope geoscience: an alternative to isotope dilution analysis, 358 (1998) 227
- Determination of cobalamins and cobinamides by microbore reversed-phase HPLC with spectrophotometric, ion-spray ionization MS and inductively coupled plasma MS detection, 359 (1998) 227
- Preparation of airborne particulate standards on PTFE-membrane filter for laser ablation inductively coupled plasma mass spectrometry, 368 (1998) 11
- Chemical speciation study of platinum group elements in geological samples by stepwise dissolution and inductively coupled plasma mass spectrometry, 374 (1998) 93
- Application and comparisons of chemometric techniques for calibration modelling using electrochemical/ICP-MS data for trace elements in UHQ water and humic acid matrices, 378 (1999)
- Development of sedimentation field-flow fractionation-inductively coupled plasma mass-spectrometry for the characterization of environmental colloids, 381 (1999) 315
- Investigation of metallodrug-protein interactions by size-exclusion chromatography coupled with inductively coupled plasma mass spectrometry (ICP-MS), 387 (1999) 135
- Estimation of uncertainties in ICP-MS analysis: a practical methodology, 394 (1999) 281
- Biochemical speciation analysis by hyphenated techniques, 400 (1999) 321

## **Ideal** mixing

- Mathematical modelling of potentiometric stripping analysis in mechanically mixed solutions, 329 (1996) 1
- Mathematical modelling of potentiometric stripping analysis. Chemical stripping in quiet solutions, 377 (1998) 13

#### Identification

Evaluation of gas chromatography with a flame photometric detector based on quartz surface-induced emission for determining the speciation of inorganic and methylgermanium compounds, 337 (1997) 83

## **Identification certainty**

Predicting chance infrared spectroscopic matching frequencies, 370 (1998) 181

## Identification of organic compounds

Application of principal component analysis for the characterisation of a piezoelectric sensors array, 367 (1998) 135

#### IDMS

SI-traceable values for cadmium and lead concentration in the candidate reference material, MURST-ISS AI Antarctic sediment, by combination of ICP-MS with isotope dilution, 346 (1997) 17

#### **IgG** subfractions

Heterogeneous humoral immune responses in cerebrospinal fluid arising from inflammatory diseases of the human central nervous system. Detection of oligoclonal immunoglobulin bands after isoelectric focusing, 393 (1999) 83

## Illicit drugs

Determination of lead in illicit drugs by electrothermal atomic absorption spectrometry using palladium as chemical modifier, 310 (1995) 355

## Illuminant

Introduction to measurement of color of fluorescent materials, 380 (1999) 183

Standards for the measurement of diffuse reflectance – an overview of available materials and measurement laboratories, 380 (1999) 379

## Image analysis

Classification of airborne particles by analytical scanning electron microscopy imaging and a modified Kohonen neural network (3MAP), 310 (1995) 1

Characterization of gangliosides by two-dimensional high-performance thin-layer chromatography, 311 (1995) 57

Visualized single cell dynamics and analysis of molecular tricks, 400 (1999) 33

#### **Imaging**

Optimization of a charge coupled device imaging enzyme linked immuno sorbent assay and supports for the simultaneous determination of multiple 2,4-D samples, 347 (1997) 87

Time-of-flight secondary ion mass spectrometry of industrial materials, 393 (1999) 201

## **Imaging detection**

Phosphorescence imaging system using an acousto-optic filterbased charge coupled device, 351 (1997) 229

#### **Imaging detector**

Capillary isoelectric focusing with whole column detection and a membrane sample preparation system, 383 (1999) 67

## Imazethapyr

Comparison of liposome amplification and fluorophor detection in flow-injection immunoanalyses, 354 (1997) 23

## Imidacloprid

Determination of imidacloprid and its major metabolite in soils by liquid chromatography with pulsed reductive amperometric detection, 349 (1997) 199

Photochemical-fluorimetric method for the determination of the insecticide imidacloprid in water samples, 371 (1998) 247

#### Imidazoacridinone

Electroanalytical and acid-base properties of imidazoacridinone, an antitumor drug (C-1311), 379 (1999) 209

#### Imidazole

Imidazole modified silver electrode and its application to the investigation of the electrochemistry of cytochrome c, 319 (1996) 275

Sulfate-selective PVC membrane electrodes based on a derivative of imidazole as a neutral carrier, 382 (1999) 165

## Imidazole derivatives

Separation and estimation of five imidazoles by packed column supercritical fluid chromatography, 362 (1998) 271

## Iminodiacetic anion complexes

Cu2+- and Cd2+-buffers in water-ethanol media, 315 (1995) 55

# Iminodiacetic chelating resin

Separation of vanadium(V) and -(IV) by sorption on an iminodiacetic chelating resin, 323 (1996) 27

#### Iminodiacetic resin

Sorption of divalent metal ions on an iminodiacetic resin from artificial seawater, 346 (1997) 381

## Immobilised AChE

Flow injection determination of metrifonate by immobilised acetylcholinesterase inhibition, 332 (1996) 179

Flow injection determination of neostigmine and galanthamine by immobilised acetylcholinesterase inhibition, 372 (1998) 379

## Immobilised enzyme

Sequential injection determination of p-glucose by chemiluminescence using an open tubular immobilised enzyme reactor, 326 (1996) 1

Immobilisation of enzyme throughout a polytyramine matrix: a versatile procedure for fabricating biosensors, 394 (1999) 211

# Immobilised enzyme reactor

Peroxyoxalate chemiluminescence in aqueous solutions: Coupling of immobilized enzyme reactors and 1,1'-oxalyldiimidazole chemiluminescence reaction to flow-injection analysis and liquid chromatographic systems, 357 (1997) 111

## **Immobilised** phases

Synthesis and properties of mercaptosilicone modified by Ni(II) and Co(II) as stationary phases for capillary complexation gas chromatography, 377 (1998) 61

#### Immobilization

- Electroimmobilisation of sulphite oxidase into a polypyrrole film and its utilisation for flow amperometric detection of sulphite, 332 (1996) 145
- Covalent immobilization of single-stranded DNA onto optical fibers using various linkers, 344 (1997) 201
- Oxygen detection by fluorescence quenching of tetraphenylporphyrin immobilized in the original cladding of an optical fiber, 370 (1998) 1
- Functionalization of nitrocellulose membranes using ammonia plasma for the covalent attachment of antibodies for use in membrane-based immunoassays, 376 (1998) 133
- Determination of nano-molar levels of formaldehyde in drinking water using flow-injection system with immobilized formaldehyde dehydrogenase after off-line solid-phase extraction, 378 (1999) 169
- Immobilization of enzyme on screen-printed electrode by exposure to glutaraldehyde vapour for the construction of amperometric acetylcholinesterase electrodes, 382 (1999) 277
- Detection of uric acid with a new type of conducting polymer-based enzymatic sensor by bipotentiostatic technique, 385 (1999) 187
- Thylakoid membranes-based test-system for detecting of trace quantities of the photosynthesis-inhibiting herbicides in drinking water. 391 (1999) 1
- Sol-gel materials for electrochemical biosensors, 399 (1999)
- Considerations for the quantitative transduction of hybridization of immobilized DNA, 400 (1999) 73
- Mimicry of peroxidase by co-immobilization of 1-allylimidazole and hemin on N-isopropylacrylamide-based hydrogel, 400 (1999) 135

# Immobilization characteristics

Immobilization of DNA on silver surface of bulk acoustic wave sensor and its application to the study of UV-C damage, 374 (1998) 31

# Immobilization procedures

Sulfosuccinimidyl 4-(N-maleimidomethyl)-1-cyclohexane carboxylate as a bifunctional immobilization agent. Optimization of the coupling conditions, 361 (1998) 33

#### Immobilized

Visual determination of mercury(II) using horseradish peroxidase immobilized on polyurethane foam, 392 (1999) 151

## Immobilized enzyme

- Determination of sucrose using sucrose phosphorylase in a flowinjection system, 337 (1997) 107
- Flow injection amperometric and chemiluminescence individual and simultaneous determination of lysine and glucose with immobilized lysine oxidase and glucose oxidase, 338 (1997)
- The influence of metabolites on enzyme based flow injection analysis, 355 (1997) 55
- Flow microcalorimeter auto-calibration for the analysis of immobilized enzyme kinetics, 355 (1997) 63

- Development of ornithine biosensor and application to estimation of prawn freshness, 364 (1998) 159
- Fluorometric determination of microamounts of hydrogen peroxide with an immobilized enzyme prepared by coupling horseradish peroxidase to chitosan beads, 374 (1998) 191
- Simultaneous biosensing of ethanol and glucose with combined use of a rotating bioreactor and a stationary column reactor, 380 (1999) 1
- Flow injection chemiluminescence determination of ornithine and sequential determination of ornithine and lysine by using immobilized lysine oxidase, 388 (1999) 339

## Immobilized enzyme electrode

Immobilized enzyme electrode for the determination of L-lactate in food samples, 345 (1997) 37

# Immobilized enzyme reactor

- Micro-scale determination of glucose by capillary flow injection with an immobilized enzyme reactor, 381 (1999) 165
- Ion chromatograph with immobilized alkaline phosphatase reactor for the determination of adenosine phosphates, 384 (1999) 45

## Immobilized glucose oxidase

Amperometric glucose sensors based on ferrocene-containing Bpolyethylenimine and immobilized glucose oxidase, 353 (1997) 37

# **Immobilized linamarase**

A fluorescence flow injection method for the quantitation of cyanide: its application to the quantitation of bound cyanide in cassava using an immobilized linamarase bioreactor, 354 (1997) 189

## Immobilized lysine oxidase membranes

Potentiometric biosensor for lysine analysis based on a chemically immobilized lysine oxidase membrane, 371 (1998) 49

# Immobilized metal ion affinity chromatography

Redox-modulated solute retention on iron-protoporphyrin-silica stationary phases, 392 (1999) 191

# Immobilized peroxidase

Determination of organomercury compounds using immobilized peroxidase, 344 (1997) 145

## Immobilized pH gradients

Isoelectric focusing of proteins and peptides in gel slabs and in capillaries, 372 (1998) 1

## **Immobilized** reagent

Optochemical sensing by immobilizing fluorophore-encapsulating liposomes in sol-gel thin films, 400 (1999) 45

## Immunoaffinity

- A novel screening method for tetracycline in milk combining sensitized-Eu(III) fluorescence and immunoaffinity techniques, 375 (1998) 1
- Immuno affinity extraction of pesticides from surface water, 399 (1999) 69

## Immunoaffinity capillary electrophoresis

Determination of in situ tissue neuropeptides by capillary immunoelectrophoresis, 372 (1998) 209

# Immunoaffinity chromatography

Immunoaffinity chromatography of polycyclic aromatic hydrocarbons in columns prepared by the sol-gel method, 339 (1997) 241

#### Immunoaffinity extraction

New trends in environmental trace-analysis of organic pollutants: class-selective immunoextraction and clean-up in one step using immunosorbents, 376 (1998) 21

#### **Immunoanalysis**

Comparison of liposome amplification and fluorophor detection in flow-injection immunoanalyses, 354 (1997) 23

## Immunoarray construction

An approach to the construction of an immunoarray for differentiating and quantitating cross reacting analytes, 319 (1996) 291

## **Immunoassay**

Comparison of chemiluminescent and chromogenic substrates of alkaline phosphatase in a direct immunoassay for plasma estradiol, 303 (1995) 143

Thiophilic gels: applications in flow-injection immunoassays for macromolecules and haptens, 303 (1995) 223

Determination of p-aminophenol and catecholamines at picomolar concentrations based on recycling enzyme amplification, 304 (1995) 25

An immunoarray for the simultaneous determination of multiple triazine herbicides, 304 (1995) 339

Immunosensing with amperometric detection, using galactosidase as label and p-aminophenyl-β-d-galactopyranoside as substrate, 304 (1995) 353

Biotinylated and streptavidinylated liposomes as labels in cytokine immunoassays, 306 (1995) 333

Highly sensitive immunological assays for human chorionic gonadotrophin and prostatic acid phosphatase using phenacyl phosphate as a chemiluminescent label, 309 (1995) 221

Immunobased elution assay for process control, 309 (1995) 301 A direct optical immunosensor for atrazine detection, 311 (1995) 289

New immunoassay techniques using Nafion-modified electrodes and cationic redox labels or enzyme labels, 311 (1995) 301

Improved liposome immunomigration strip assay for alachlor determination, 311 (1995) 309

Validation of two immunoassay methods for environmental monitoring of carbaryl and 1-naphthol in ground water samples, 311

Development of immunoassays for the analysis of chlorpyrifos and its major metabolite 3,5,6-trichloro-2-pyridinol in the aquatic environment, 311 (1995) 341

Enzyme immunoassays for s-triazine herbicides and their application in environmental and food analysis, 311 (1995) 349

Application of a monoclonal antibody-based ELISA to the determination of carbaryl in apple and grape juices, 311 (1995) 365

Determination of Procymidone in vegetables by a commercial competitive inhibition enzyme immunoassay, 311 (1995) 371

Application of immunological methods for the determination of environmental pollutants in human biomonitoring. A review, 311 (1995) 383

Immunochemical techniques: antibody production for pesticide analysis. A review, 311 (1995) 393

Water quality control in the production of drinking water from river water. The application of immunological techniques for the detection of chlorophenoxy acid herbicides (2,4-D), 311 (1995) 407

Application of radioimmunoassay in the screening of polychlorinated biphenyls in cow's milk, 311 (1995) 415

On-line preconcentration and liquid chromatographic analysis of phenylurea pesticides in environmental water using a silicabased immunosorbent, 311 (1995) 429

Trapping method of antibodies on surfaces of polymerizing discs for enzyme immunoassay, 312 (1995) 85

The automation of immun-FIA-systems, 313 (1995) 55

Sources of experimental variation in calibration curves for enzymelinked immunosorbent assay, 313 (1995) 197

Broadening the antibody specificity by hapten design for an enzyme-linked immunoassay as an improved screening method for the determination of nitroaromatic residues in soils, 315 (1995) 279

A multichannel immunochemical sensor for determination of 2,4dichlorophenoxyacetic acid, 316 (1995) 73

Environmental analysis in the workplace; development of a rapid, sensitive ELISA for monitoring airborne alcalase, 316 (1995) 247

Reusable solid phase immunoassay for the detection of citrate lyase, 320 (1996) 77

Enhanced chemiluminescence kinetic ELISA of dichlorprop methyl ester, 321 (1996) 213

An enzymatic amplification cycle for high sensitive immunoassay, 328 (1996) 27

Performance of two immunoassays for the determination of atrazine in sea water samples as compared with on-line solid phase extraction-liquid chromatography-diode array detection, 330 (1996) 41

Chiral interaction of a polyclonal anti-dinitrophenyl antibody with dinitrophenyl-amino acids determined by an enantioselective enzyme-linked immunosorbent assay, 332 (1996) 285

Development of a sensitive radioimmunoassay for the potential antimigraine drug GR151004: including cross-validation to liquid chromatography-mass spectrometry-mass spectrometry and application to pharmacokinetic studies, 334 (1996) 225

Immunoenzymatic application of a redox potential biosensor, 335 (1996) 127

Towards a homogeneous fluorescence assay for a herbicide: characterization of the interactions of fusilade, bromomethylmethoxy coumarin derivatized fusilade, and anti-fusilade IgG antibody, 336 (1996) 157

Enzyme immunoassay with amperometric flow-injection analysis using horseradish peroxidase as a label. Application to the determination of polychlorinated biphenyls, 336 (1996) 167

A procedure for the immunoanalysis of samples containing one or more members of a group of cross-reacting analytes, 336 (1996) 175

- Simultaneous immunoassay using piezoelectric immunosensor array and robust method, 336 (1996) 185
- Chemiluminescence assay of alkaline phosphatase using cortisol-21-phosphate as substrate and its application to enzyme immunoassays, 337 (1997) 335
- Chemiluminescent flow injection determination of alkaline phosphatase and its applications to enzyme immunoassays, 339 (1997) 139
- Modulation of the measuring range of a radioimmunoassay using an organic water two phase system, 341 (1997) 269
- Disposable screen-printed electrodes for the immunochemical detection of polychlorinated biphenyls, 342 (1997) 189
- The specific immunochemical detection of 2,4-dichlorophenoxyacetic acid and 2,4,5-trichlorophenoxyacetic acid pesticides by amperometric cholinesterase biosensors, 347 (1997) 71
- A monoclonal antibody-based ELISA for the analysis of azinphosmethyl in fruit juices, 347 (1997) 95
- A monoclonal immunoassay for carbofuran and its application to the analysis of fruit juices, 347 (1997) 103
- Homogeneous enzyme immunoassay for pyrethroid pesticides and their derivatives using bacillary alpha-amylase as label, 347 (1997) 131
- Development of a highly sensitive enzyme-linked immunosorbent assay for atrazine Performance evaluation by flow injection immunossay, 347 (1997) 149
- Enzyme-immunoassays for polychlorinated biphenyls: structural aspects of hapten-antibody binding, 347 (1997) 163
- Antibodies for immunosensors, 347 (1997) 177
- Monitoring proteolytic enzymes for health and safety in the manufacturing environment. A review, 347 (1997) 235
- Flow immunoassay using a cation exchange column and fluorescence-labelled antibody for detection of allergen, 354 (1997)
- Pentachlorophenol detection at the source of emission . Sampling equipment and immunochemical analysis, 359 (1998) 321
- Strengths and limitations of immunoassays for effective and efficient use for pesticide analysis in water samples: A review, 362 (1998) 3
- Diphenylurea hapten sensing with a monoclonal antibody and its Fab fragment: Kinetic and thermodynamic investigations, 362 (1998) 101
- A strategy to validate immunoassay test kits for TNT and PAHs as a field screening method for contaminated sites in Germany, 376 (1998) 3
- Immunoassays for metal ions, 376 (1998) 13
- Easy-to-use immunoassay for the residue analysis of 2,4,5-T, 376 (1998) 37
- Development of anti-phenylurea antibody purification techniques for improved environmental applications, 376 (1998) 41
- Expanding the role of environmental immunoassays: technical capabilities, regulatory issues, and communication vehicles, 376 (1998) 55
- A high-throughput ELISA system for surface water and groundwater analysis, 376 (1998) 61
- Development of a competitive enzyme-linked immunosorbent assay based on a monoclonal antibody for a fungicide flutolanil, 376 (1998) 93

- Immunochemical approach for assay of herbicide thiobencarb, 376 (1998) 97
- An enzyme immunoassay for mutagenic metabolites of the herbicide alachlor, 376 (1998) 103
- Occurrence of triazine herbicides and metolachlor in the Niagara River and other major tributaries draining into Lake Ontario, 376 (1998) 113
- Use of immunoassays for biomonitoring of herbicide metabolites in urine, 376 (1998) 119
- Affinity between immobilised monoclonal and polyclonal antibodies and steroid-enzyme tracers increases sharply at high surface density, 381 (1999) 133
- Immunoassay on a single microparticle: the effect of particle size and number on a miniaturized time-resolved fluorometric assay of free prostate-specific antigen, 387 (1999) 11
- Effect of competitor design on immunoassay specificity: Development and evaluation of an enzyme-linked immunosorbent assay for 2,4-dinitrophenol, 387 (1999) 267
- Alkaline phosphatase as a label for immunoassay using amperometric detection with a variety of substrates and an optimal buffer system, 393 (1999) 95
- Examination of an immunoglobulin modified methacrylate copolymer for amperometric immunoassay, 396 (1999) 171
- Fluorescence binding assay for a small peptide based on a GFP fusion protein, 397 (1999) 279
- A direct immunoassay for schistosoma japonium antibody (SjAb) in serum by piezoelectric body acoustic wave sensor, 398 (1999) 57
- Development and validation of an ELISA for metolachlor mercapturate in urine, 399 (1999) 109
- A modified enzyme-linked immunosorbent assay (ELISA) for polyaromatic hydrocarbons, 399 (1999) 127
- Microplate immunoassay technique using polyelectrolyte carriers: kinetic studies and application to detection of the herbicide atrazine, 399 (1999) 151
- Flow injection immunotitration: extended working range for inhibition type immunodetection, 399 (1999) 275
- Development of an electrochemical flow injection immunoassay (FIIA) for the real-time monitoring of biospecific interactions, 400 (1999) 109
- Bioanalytics: detailed insight into bioprocesses, 400 (1999) 121

#### Immunobead

Micro volume rotating disk electrode (RDE) amperometric detection for a bead-based immunoassay, 399 (1999) 3

## **Immunoblotting**

Application of polyacrylamide slab gel electrophoresis to the analysis and small-scale purification of amyloid proteins, 372 (1998) 161

## Immunochemical analysis

Prototype of a newly developed immunochemical detection system for the determination of pesticide residues in water, 347 (1997) 187

#### Immunochromatographic membrane

Disposable liposome immunosensor for theophylline combining an immunochromatographic membrane and a thick-film electrode, 380 (1999) 17

## **Immunoelectrodes**

Amperometric immunosensors and enzyme electrodes for environmental applications, 362 (1998) 47

## Immunoelectrophoresis

Application of electrophoretic techniques to the diagnosis of disorders of lipoprotein metabolism. Examples at the levels of lipoproteins and apolipoproteins, 383 (1999) 169

## Immunoenzyme assay

D1 protein – an effective substitute for immunoglobulins in ELISA for the detection of photosynthesis inhibiting herbicides, 398 (1999) 49

#### Immuno-FIA

Flow injection immunotitration: extended working range for inhibition type immunodetection, 399 (1999) 275

## Immunofiltration flow-injection assay

Highly sensitive flow-injection immunoassay system for rapid detection of bacteria, 399 (1999) 99

#### Immunofixation

Heterogeneous humoral immune responses in cerebrospinal fluid arising from inflammatory diseases of the human central nervous system. Detection of oligoclonal immunoglobulin bands after isoelectric focusing, 393 (1999) 83

#### **Immunogens**

Enzyme-immunoassays for polychlorinated biphenyls: structural aspects of hapten-antibody binding, 347 (1997) 163

## **Immunoglobulins**

Study of the catalytic polarographic reduction of Ni(II) in the presence of albumin, immunoglobulins and serum proteins Determination of total proteins in serum, 317 (1995) 319

A flow-injection continuous filtration approach for the automatic determination of monoclonal antibodies, 331 (1996) 245

Monitor of antibodies in human saliva using a piezoelectric quartz crystal biosensor, 365 (1998) 147

# Immunomagnetic separation

Use of an immunomagnetic separation–fluorescent immunoassay (IMS–FIA) for rapid and high throughput analysis of environmental water samples, 376 (1998) 77

#### Immunosensors

Aerosol-generated sol-gel-derived thin films as biosensing platforms, 332 (1996) 83

New detection method for atrazine pesticides with the optical waveguide Mach-Zehnder immunosensor, 341 (1997) 171

A redox-label immunosensor on basis of a bi-enzyme electrode, 344 (1997) 119

Improved direct piezoelectric biosensors operating in liquid solution for the competitive label-free immunoassay of 2,4-dichlorophenoxyacetic acid, 347 (1997) 43

Antibodies for immunosensors, 347 (1997) 177

Amperometric immunosensing using microperoxidase MP-11 antibody conjugates, 374 (1998) 167

Pulsed electrochemical technique for monitoring antibody-antigen reactions at interfaces, 376 (1998) 125 Disposable liposome immunosensor for theophylline combining an immunochromatographic membrane and a thick-film electrode, 380 (1999) 17

Reversible immunosensor for the automatic determination of atrazine. Selection and performance of three polyclonal antisera, 386 (1999) 201

Flow injection immunosensing of polycyclic aromatic hydrocarbons with a quartz crystal microbalance, 387 (1999) 29

Immunosensor for trace determination of Irgarol 1051 in seawater using organic media, 387 (1999) 227

Amperometric immunosensor for granulocyte-macrophage colonystimulating factor using screen-printed electrodes, 389 (1999)

Optimization of capacitive affinity sensors: drift suppression and signal amplification, 392 (1999) 77

Automated immunosensing system for 3,5,6-trichloro-2-pyridinol. Application to surface water samples, 392 (1999) 113

Highly parallel affinity sensor for the detection of environmental contaminants in water, 393 (1999) 29

Determination of β-HCG using amperometric immunosensors based on a conducting immunocomposite, 396 (1999) 181

Semi-automated membrane based chemiluminescent immunosensor for flow injection analysis of okadaic acid in mussels, 398 (1999)

Multi-analyte explosive detection using a fiber optic biosensor, 399 (1999) 13

Resonant mirror-based optical immunosensor: application for the measurement of atrazine in soil, 399 (1999) 29

#### Immunosuppression

Liquid chromatographic determination of cyclosporin A using aryl oxalate chemiluminescence detection, 303 (1995) 333

## Impaction

Sample collection and preparation for analysis of airborne particulate matter by total reflection X-ray fluorescence spectrometry, 346 (1997) 121

## Impedance

Impedance studies of the adsorption of hydrophobic and hydrophylic species on mineral pulps, 305 (1995) 265

PVC membrane lithium-selective electrodes based on oligomethylene-bridged bis-1,10-phenanthroline derivatives, 329 (1996)

In situ monitoring of copper(II) fixation on silica gel in aqueous ammonia by means of dielectric measurements and quantitative analysis of adsorbed species, 361 (1998) 273

Plasticizer-free all-solid-state potassium-selective electrode based on poly(3-octylthiophene) and valinomycin, 385 (1999) 195

#### Impinging-jet

A microelectrochemical detector for use at low linear velocities in capillary column systems, 344 (1997) 77

## Implantable sensors

Electroanalytical and surface characterization of encapsulated implantable membrane planar microsensors, 314 (1995) 1

## **Implants**

Laser-induced thermal desorption with Fourier transform mass spectrometry for the time resolved analysis of catalyst and biomedical implant model surface molecular composition, 307 (1995) 321

## Imprinted polymer

Study of the nature of recognition in molecularly imprinted polymer selective for 2-aminopyridine, 381 (1999) 85

#### **Impurities**

Determination of impurities in high-purity selenium by inductively coupled plasma mass spectrometry after acetate-form anionexchange separation, 333 (1996) 51

Determination of ultratrace metallic impurities in fluorocarbon polymers by electrothermal atomic absorption spectrometry after decomposition with a combustion system, 336 (1996) 151

#### Impurities determination

Fourier transform infrared spectrometry (FTIR) for qualitative and quantitative analysis of azodicarboxamide and its potential impurities, 355 (1997) 7

## Impurity analysis

Impurity analysis of methamidophos with chromatographic methods, 395 (1999) 257

#### Impurity monitoring

Two-way, unfolded three-way and three-mode partial least squares calibration of diode array HPLC chromatograms for the quantitation of low-level pharmaceutical impurities, 384 (1999) 71

#### IMS-MS

Characterisation of the molecular ions produced by a dinitroalkane in positive mode ion mobility spectrometry with water, dichloromethane and ammonia reactant ion chemistries, 374 (1998) 253

#### In situ

The use of voltammetry for sorption studies of heavy metals on mineral surfaces in presence of the siderophore desferrioxamine B, 392 (1999) 159

# In situ alkylation

Inductively coupled plasma atomic emission spectrometric determination of beryllium in aluminium-based alloys and rock samples by introducing beryllium into the plasma as ethylber-yllium species, 309 (1995) 379

## In situ analysis

Membrane introduction mass spectrometry, 350 (1997) 257

In situ determination of silicic acid in sea water based on FIA and colorimetric dual-wavelength measurements., 377 (1998) 157

#### In situ measurements

Characterization and reduction of interferences in flow-injection analysis for the in situ determination of nitrate and nitrite in sea water, 308 (1995) 413

## In situ microanalysis

Quantitative in situ microanalysis of minor and trace elements in biogenic calcite using infrared laser ablation – inductively coupled plasma mass spectrometry: a critical evaluation, 378 (1999) 261

## In situ modified carbon paste electrodes

A new method for the voltammetric determination of molybdenum(VI) using carbon paste electrodes modified in situ with cetyltrimethylammonium bromide, 350 (1997) 319

#### In situ preconcentration

Investigation of thallium hydride generation using in situ trapping in graphite tube by atomic absorption spectrometry, 360 (1998) 209

## In situ spectroscopic measurements

On the evaluation of turnover frequencies in unicyclic homogeneous catalysis. Experimental, numerical, and statistical aspects, 374 (1998) 67

## in situ UV/Vis reflection spectroscopy

DNA-modified electrodes Part 3.: spectroscopic characterization of DNA-modified gold electrodes, 388 (1999) 93

## In vitro selection of aptamer

In vitro selection of aptamers that recognize a monosaccharide, 365 (1998) 95

#### In vivo

Recovery as a function of the osmolality of the perfusion medium in microdialysis experiments, 375 (1998) 135

Recovery as a function of the osmolality of the perfusion medium in microdialysis experiments, 379 (1999) 319

## In vivo analysis

Calibration methods for microdialysis sampling in vivo: muscle and adipose tissue, 400 (1999) 143

# In vivo monitoring

Cathophoresis paint insulated carbon fibre ultramicro disc electrode and its application to in vivo amperometric monitoring of quantal secretion from single rat melanotrophs, 378 (1999) 135

#### In(III)

Influence of Triton X-100 in stripping potentiometry, 333 (1996) 233

#### In-carbon dioxide

Quantitative millimetre wavelength spectrometry. . Part IV. Response curves for oxygen in carbon dioxide and nitrogen at 60 GHz , 367 (1998) 245

#### Incineration

Laser-induced plasma spectroscopy (LIPS): a versatile tool for monitoring heavy metal aerosols, 392 (1999) 47

#### Inclusion complexes

A regenerable pseudo-reagentless glucose biosensor based on Nafion polymer and 1,1'-dimethylferricinium mediator, 310 (1995) 419

Formation constants of polynuclear aromatic compounds and βcyclodextrin inclusion complexes in β-cyclodextrin modified mobile phase high performance liquid chromatography system, 344 (1997) 137 Voltammetric studies of the interaction of methylene blue with DNA by means of  $\beta$ -cyclodextrin, 394 (1999) 337

#### **Inclusion compounds**

Thermodynamic investigation of sample retention mechanism in ion-exclusion chromatography with inclusion compound in the mobile phase, 306 (1995) 267

#### **Inclusion constants**

Determination of the formation constant for the inclusion complex between rutin and methyl-β-cyclodextrin, 315 (1995) 357

#### Inclusions

Determination of noble metals in sulphide inclusions from diamonds using inductively coupled plasma-mass spectrometry, 333 (1996) 41

#### **Incubation coils**

Direct parallel flow injection multichannel spectrophotometric determination of olive oil peroxide value, 389 (1999) 239

## Indicator electrodes

Practical improvements for redox potential (E<sub>H</sub>) measurements and the application of a multiple-electrode redox probe (MERP) for characterising sediment in situ, 367 (1998) 201

#### **Indicator functions**

An automated procedure to predict the number of components in spectroscopic data, 379 (1999) 143

# **Indicator PAN**

Analysis of superconductor oxides YBa<sub>2</sub>Cu<sub>3</sub>O<sub>8-x</sub> by inductively coupled plasma atomic emission spectrometry and complexometric titration, 330 (1996) 259

#### Indicators

The impact of tether hydrophobicity on stoichiometry of immobilized indicator-analyte complexes, 316 (1995) 391

Selective determination of sulfuric acid in liquors from acidic nickel ore extraction by flow injection analysis, 328 (1996) 61

Selective determination of protolytes by flow injection analysis. A guide for the rational selection of reagent composition, 344 (1997) 271

## Indigo Carmine

Spectrophotometric resolution of ternary mixtures of Tartrazine, Patent Blue V and Indigo Carmine in commercial products, 391 (1999) 353

## Indirect adsorption detection

Indirect adsorption detection: An alternative pulsed electrochemical detection waveform, 344 (1997) 55

## Indirect amperometric detection

Zeolite-modified electrodes in electroanalytical chemistry, 384 (1999) 1

## Indirect conductivity detection

Determination of benzhexol hydrochloride and ethambutol hydrochloride tablets by liquid chromatography, 314 (1995) 77

## **Indirect detection**

On-line indirect chemiluminescence detection in capillary electrophoresis, 363 (1998) 157

Factors affecting the analytical applications of zeolite modified electrodes: indirect detection of nonelectroactive cations, 388 (1999) 79

## **Indirect determination**

Flow injection sandwich technique applied to indirect visible spectrophotometric determinations. Bromimetric and iodimetric determination of sulphite, 318 (1995) 55

## Indirect photometric detection

Microcolumn ion chromatography of inorganic monovalent cations with indirect photometric detection and a silica gel column, 334 (1996) 39

Application of a silica gel column for the simultaneous determination of alkali and alkaline-earth metal ions with indirect photometric detection using benzyltrimethylammonium chloride as visualization agent, 341 (1997) 225

Indirect photometric detection of inorganic monovalent and divalent cations by microcolumn ion chromatography using 1,1'-dimethyl-4,4'-bipyridinium dichloride as visualization agent, 379 (1999) 33

Separation and determination of carnitine and acyl-carnitines by capillary electrophoresis with indirect UV detection, 382 (1999)

## Indirect photometric detection ion chromatography

Simultaneous determination of common inorganic anions, magnesium and calcium ions in various environmental waters by indirect UV-photometric detection ion chromatography using trimellitic acid-EDTA as eluent, 373 (1998) 189

## Indirect tensammetric method

Application of an indirect tensammetric method for the determination of non-ionic surfactants in surface water, 305 (1995) 256

Determination of non-ionic surfactants adsorbed on particles of surface water by an indirect tensammetric method combined with the BiAS separation scheme, 331 (1996) 131

#### Indium

Diffuse reflection spectroscopy of indium sorbates with immobilized heterocyclic azo compounds, 364 (1998) 235

## Indium hexacyanoferrate

Determination of thiocompounds by liquid chromatography with amperometric detection at a Nafion/indium hexacyanoferrate film modified electrode, 386 (1999) 21

## Indocyanine green

Diode laser induced near infra-red fluorescence detection for highperformance liquid chromatography analysis of indocyanine green in plasma, 342 (1997) 145

#### Indole

Electrogenerated chemiluminescence for determination of indole and tryptophan, 341 (1997) 251

## Indole-3-acetic acid

Adsorptive stripping determination of indole-3-acetic acid at a carbon fiber ultramicroelectrode, 327 (1996) 117

## Indoleacetic acid

Application of indoleacetic acid-imprinted polymer to solid phase extraction, 395 (1999) 251

#### Indomethacin

Genetic-algorithm-based wavelength selection in multicomponent spectrometric determinations by PLS: application on indomethacin and acemethacin mixture, 339 (1997) 63

#### Indoor air

Determination of permethrin in indoor air by liquid chromatography with enzyme linked immunosorbent assay, 393 (1999) 103

## Indoor air monitoring

Pentachlorophenol detection at the source of emission . Sampling equipment and immunochemical analysis, 359 (1998) 321

#### Indoor air quality

Field air analysis with SPME device, 400 (1999) 153

## Indophenol method

Determination of ammonia in water and industrial effluent streams with the indophenol blue method using sequential injection analysis, 344 (1997) 281

## Induced sweating

Physical stimuli and emotional stress-induced sweat secretions in the human palm and forehead, 365 (1998) 319

## Inductively coupled plasma

Photoreduction-hydride generation: a new on-line system for the determination of selenate and selenite, 353 (1997) 91

# Inductively coupled plasma atomic emission spectrometry

- Column solid phase extraction as preconcentration method for trace element determination in oxalic acid by atomic absorption spectrometry and inductively coupled plasma atomic emission spectrometry, 307 (1995) 71
- On-line separation and preconcentration of chromium species in seawater, 325 (1996) 185
- Comparative study to evaluate the effect of different acids on the determination of germanium by hydride generation-inductively coupled plasma atomic emission spectrometry, 376 (1998) 283
- Comparison of two digestion methods for elemental determinations in plant material by ICP techniques, 378 (1999) 191
- Separation and preconcentration of uranium from geological materials with chelating resin containing 4-(2-thiazolylazo)resorcinol functional groups, 382 (1999) 199
- Speciation of antimony(III) and antimony(V) using hydride generation inductively coupled plasma atomic emission spectrometry combined with the rate of pre-reduction of antimony, 386 (1999) 297
- Statistical evaluation of data obtained by inductively coupled plasma atomic emission spectrometry (ICP-AES) for archaeological copper ingots, 389 (1999) 141

# Inductively coupled plasma mass spectrometry

- On-line preconcentration of aluminium with immobilized Chromotrope 2B for the determination by flame atomic absorption spectrometry and inductively coupled plasma mass spectrometry, 304 (1995) 121
- Inductively coupled plasma mass spectrometric determination of heavy metals in soil and sludge candidate reference materials, 304 (1995) 307
- Inductively coupled plasma mass spectrometric determination of gold in serum: comparison with flame and furnace atomic absorption spectrometry, 304 (1995) 317
- Determination of chromium and nickel in human blood by means of inductively coupled plasma mass spectrometry, 306 (1995) 35
- Determination of selenium compounds in urine samples by liquid chromatography-inductively coupled plasma mass spectrometry with an ultrasonic nebulizer, 307 (1995) 109
- Determination of fission products and actinides by inductively coupled plasma-mass spectrometry using isotope dilution analysis: a study of random and systematic errors, 312 (1995) 57
- Speciation of tin by reversed phase liquid chromatography with inductively coupled plasma mass spectrometric detection, 312 (1995) 141
- On-line preconcentration of selenium(IV) and selenium(VI) in aqueous matrices followed by liquid chromatography-inductively coupled plasma mass spectrometry determination, 314 (1995) 183
- Determination of rare earth impurities in ultrapure europium oxide by inductively-coupled plasma mass spectrometry, 314 (1995) 193
- On-line ion-exchange separation and determination of niobium, tantalum, tungsten, zirconium and hafnium in high-purity iron by flow injection inductively coupled plasma mass spectrometry, 315 (1995) 331
- Speciation of chromium in aquatic samples by coupled column ion chromatography-inductively coupled plasma-mass spectrometry, 318 (1996) 335
- Determination of uranium by flow injection inductively coupled plasma mass spectrometry, 319 (1996) 135
- Evaluation of a flow injection system combined with an inductively coupled plasma mass spectrometer with thermospray nebulization for the determination of trace levels of platinum, 320 (1996)
- Determination of metallo-organic species in lubricating oil by electrothermal vaporization inductively coupled plasma mass spectrometry, 320 (1996) 11
- Multi-element analysis of airborne particulate matter by various spectrometric methods after microwave digestion, 320 (1996) 207
- Speciation of chromium using thermospray nebulization as sample introduction into inductively coupled plasma mass spectrometry, 322 (1996).
- Microwave dissolution of plant tissue and the subsequent determination of trace lanthanide and actinide elements by inductively coupled plasma-mass spectrometry, 322 (1996) 11
- On-line separation and preconcentration of chromium species in seawater, 325 (1996) 185

- Determination of germanium by isotope dilution-hydride generation inductively coupled plasma mass spectrometry, 332 (1996) 277
- Determination of noble metals in sulphide inclusions from diamonds using inductively coupled plasma-mass spectrometry, 333 (1996) 41
- Determination of impurities in high-purity selenium by inductively coupled plasma mass spectrometry after acetate-form anionexchange separation, 333 (1996) 51
- Flow injection method for determination of uranium in urine and serum by inductively coupled plasma mass spectrometry, 334 (1996) 295
- Precise determination of rare earth elements, thorium and uranium in chondritic meteorites by inductively coupled plasma mass spectrometry – a comparative study with radiochemical neutron activation analysis, 338 (1997) 237
- Preconcentration and matrix separation of precious metals in geological and related materials using metalfix-chelamine resin prior to inductively coupled plasma mass spectrometry, 340 (1997) 31
- Determination of physiological noble metals in human urine using liquid-liquid extraction and Zeeman electrothermal atomic absorption spectrometry, 340 (1997) 277
- Assessment of the content of selected trace elements in serum of term and pre-term newborns by inductively coupled plasma mass spectrometry, 342 (1997) 75
- Reproducibility testing of a sequential extraction scheme for the determination of trace metal speciation in a marine reference sediment by inductively coupled plasma-mass spectrometry, 342 (1997) 91
- Behaviour of matrix cations (Ca<sup>2+</sup>, K<sup>+</sup>, Mg<sup>2+</sup> and Na<sup>+</sup>) during online preconcentration and atomic spectrometric detection of trace metals in natural waters, 351 (1997) 311
- Determination of Hg and Bi by electrothermal vaporization inductively coupled plasma mass spectrometry using vapor generation with in situ preconcentration in a platinum-coated graphite furnace, 353 (1997) 173
- Semi-quantitative panoramic analysis of industrial samples by inductively coupled plasma mass spectrometry, 355 (1997) 105
- Analysis of silicon nitride bearings with laser ablation inductively coupled plasma mass spectrometry, 355 (1997) 113
- Determination of trace elements in sea weed samples by inductively coupled plasma mass spectrometry, 355 (1997) 121
- Determination of vanadium species in water samples by liquid chromatography-inductively coupled plasma mass spectrometry, 357 (1997) 211
- Determination of Cu, Zn, Cd and Pb in fish samples by slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry, 359 (1998) 205
- Analytical problems in the determination of platinum-group metals in urine by quadrupole and magnetic sector field inductively coupled plasma mass spectrometry, 363 (1998) 1
- Optimisation of the extraction of arsenic species from mussels with low power focused microwaves by applying a Doehlert design, 364 (1998) 19
- Determination of ultratrace amounts of boron in high purity alcohols by inductively coupled plasma-mass spectrometry with hydrofluoric acid/potassium fluoride treatment, 368 (1998) 275

- Determination of trace impurities in high purity gallium by inductively coupled plasma mass spectrometry and cross validation of results by transverse heated graphite furnace atomic absorption spectrometry, 371 (1998) 305
- Determination of Ge, As, Se, Cd and Pb in plant materials by slurry sampling-electrothermal vaporization-inductively coupled plasma-mass spectrometry, 372 (1998) 365
- Determination of the aqua regia soluble content of rare earth elements in fertilizer, animal fodder phosphate and manure samples using inductively coupled plasma mass spectrometry, 373 (1998) 95
- Off-line separation and determination of inorganic arsenic species in natural water by high resolution inductively coupled plasma mass spectrometry with hydride generation combined with reaction of arsenic(V) and L-cysteine, 375 (1998) 167
- Determination of ultra-trace impurities in semiconductor-grade water and chemicals by inductively coupled plasma mass spectrometry following a concentration step by boiling with mannitol, 377 (1998) 47
- Comparison of two digestion methods for elemental determinations in plant material by ICP techniques, 378 (1999) 191
- Introduction of alcohols in inductively coupled plasma mass spectrometry by a flow injection system, 379 (1999) 175
- Determination of trace elements in shellfish tissue samples by inductively coupled plasma mass spectrometry, 382 (1999) 215
- Solid sampling electrothermal vaporization inductively coupled plasma mass spectrometry for the direct determination of Hg in sludge samples, 383 (1999) 253
- Comparison of AFS and ICP-MS detection coupled with gas chromatography for the determination of methylmercury in marine samples, 390 (1999) 245
- Determination of arsenic and vanadium in airborne related reference materials by inductively coupled plasma-mass spectrometry, 392 (1999) 299
- Use of laser ablation inductively coupled plasma mass spectrometry to provide element versus time profiles in teeth, 395 (1999)
- Determination of lead isotope ratios in port wine by inductively coupled plasma mass spectrometry after pre-treatment by UVirradiation, 396 (1999) 45

## Inductively coupled plasma spectrometry

- Comparison of plumbane and tetraethyllead for the determination of lead by inductively coupled plasma atomic emission spectrometry, 309 (1995) 369
- Inductively coupled plasma atomic emission spectrometric determination of beryllium in aluminium-based alloys and rock samples by introducing beryllium into the plasma as ethylberyllium species, 309 (1995) 379
- Inductively coupled plasma atomic emission spectrometric determination of cadmium in biological and environmental materials using electrothermal vaporization after in situ alkylation, 310 (1995) 369
- Synthesis and efficiency of an epoxy-tannin chelating resin for preconcentrating and separating various rare elements, 310 (1995) 493

- Determination of trace elements in heavy oil samples by graphite furnace and cold vapour atomic absorption spectrometry after acid digestion, 311 (1995) 85
- Optimised simultaneous multi-element analysis of environmental slurry samples by inductively coupled plasma atomic emission spectrometry using a segmented array charge-coupled device detector, 311 (1995) 123
- On-line ion exchange system coupled to inductively coupled plasma atomic emission spectrometer with ultrasonic nebulization for the separation, preconcentration and determination of arsenic(V) and monomethylarsonate, 313 (1995) 243
- Selective separation and determination of scandium from yttrium and lanthanides in red mud by a combined ion exchange/solvent extraction method, 315 (1995) 231
- Recovery of lanthanides and yttrium from red mud by selective leaching, 319 (1996) 249
- Fluorination with polytetrafluoroethylene slurry in electrothermal vaporization-inductively coupled plasma-atomic emission spectrometry, 319 (1996) 255
- Determination of trace elements in human serum by inductively coupled plasma atomic emission spectrometry with flow injection, 320 (1996) 185
- Pretreatment by yeast for determination of nickel and vanadium in bitumen-in-water emulsion by inductively coupled plasma atomic emission spectrometry, 327 (1996) 61
- Speciation of metals associated with natural water components by on-line membrane fractionation combined with inductively coupled plasma atomic emission and mass spectrometries, 327 (1996) 167
- Rapid determination of lithium in human serum and urine, at physiological concentrations, by inductively coupled argon plasma atomic emission spectrometry, 327 (1996) 301
- Determination of copper in natural waters by batch and oscillating flow injection stripping potentiometry, 330 (1996) 79
- Analysis of superconductor oxides YBa<sub>2</sub>Cu<sub>3</sub>O<sub>8-x</sub> by inductively coupled plasma atomic emission spectrometry and complexometric titration, 330 (1996) 259
- Application of slurry sample introduction to a low-power inductively coupled plasma atomic emission spectrometer incorporating a mini-torch, 342 (1997) 83
- Determination of scandium in geological materials, rare earth minerals and niobate/tantalate-type of samples by inductively coupled plasma atomic emission spectrometry after solvent extraction/acid hydrolysis separation, 376 (1998) 273

## Inductively coupled plasma-optical emission spectrometry

Behaviour of matrix cations (Ca<sup>2+</sup>, K<sup>+</sup>, Mg<sup>2+</sup> and Na<sup>+</sup>) during online preconcentration and atomic spectrometric detection of trace metals in natural waters, 351 (1997) 311

## Industrial air monitoring

- Environmental analysis in the workplace; development of airborne monitoring systems for potentially harmful pharmaceuticals: an improved rapid ELISA for ceftazidime, 311 (1995) 377
- Monitoring proteolytic enzymes for health and safety in the manufacturing environment. A review, 347 (1997) 235

## Industrial cleaning monitor

Investigation of the quartz resonator as an industrial cleaning monitor, 309 (1995) 53

#### Industrial effluents

- Determination of sulphate in natural waters and industrial effluents by sequential injection analysis, 331 (1996) 271
- Determination of pentachlorophenol in certified waste waters, soil samples and industrial effluents using ELISA and liquid solid extraction followed by liquid chromatography, 346 (1997) 49
- Tracing polar benzene- and naphthalenesulfonates in untreated industrial effluents and water treatment works by ion-pair chromatography-fluorescence and electrospray-mass spectrometry, 400 (1999) 211

## **Industrial liquid effluents**

On-line flow injection monitoring of ammonia in industrial liquid effluents, 314 (1995) 33

# **Industrial liquors**

Selective determination of sulfuric acid in liquors from acidic nickel ore extraction by flow injection analysis, 328 (1996) 61

#### Industrial residues

Effect of competitor design on immunoassay specificity: Development and evaluation of an enzyme-linked immunosorbent assay for 2,4-dinitrophenol, 387 (1999) 267

# Industrial wastes

Oxygen bomb combustion ion chromatography for elemental analysis of heteroatoms in fuel and wastes development, 315 (1995) 347

#### Industry

Towards a closer integration of Ph.D. training to industrial and societal needs, 393 (1999) 147

#### Inert complexes

- Voltammetric investigation of the complexation equilibria in the presence of a low level of supporting electrolyte Part 1: Steady-state current-potential curves for inert complexes, 337 (1997) 5
- Multivariate curve resolution analysis of voltammetric data obtained at different time windows: study of the system Cd<sup>2+</sup>-nitrilotriacetic acid, 371 (1998) 23
- Voltammetric investigation of the complexation equilibria in the presence of a low level of supporting electrolyte. Experiments with an inert complex, 377 (1998) 29

#### Inert gas

Determination of nitrogen in uranium-plutonium mixed oxide fuel by gas chromatography after fusion in an inert gas atmosphere, 345 (1997) 131

#### Inert matrix

Statistical design for optimization of extraction of polyphenols from an inert matrix using carbon dioxide-based fluids, 391 (1999) 321

#### Infant hair

Correlation of the antimony concentration of umbilical cord and infant hair measured by hydride generation—atomic fluorescence spectrometry, 354 (1997) 1

#### Inflammation central nervous system

Heterogeneous humoral immune responses in cerebrospinal fluid arising from inflammatory diseases of the human central nervous system. Detection of oligoclonal immunoglobulin bands after isoelectric focusing, 393 (1999) 83

## Influence coefficients

Constraints, iteration schemes and convergence criteria for concentration calculations in X-ray fluorescence spectrometry with the use of fundamental parameter methods, 373 (1998) 291

#### Influence of ionic strength

Correlation between the electrical charge properties of polymeric membranes and the characteristics of ion field effect transistors or penicillinase based enzymatic field effect transistors, 331 (1996) 217

#### Information entropy

The development of the significant peak selection method using the mutual information and its completeness, 351 (1997) 387

## Information theory

A new topological index for the Changchun Institute of Applied Chemistry <sup>13</sup>C NMR information system, 318 (1995) 117

Combined experimental design and information theory for the optimization of supercritical fluid extraction of organic priority pollutants from sediment, 351 (1997) 377

## Infrared

Formation of a copper-butyl ethoxycarbonyl thiourea complex, 346 (1997) 237

Advantages of a hierarchical system of neural-networks for the interpretation of infrared spectra in structure determination, 348 (1997) 255

Infrared diffuse reflectance instrumentation and standards at NIST, 380 (1999) 289

Monitoring solid phase synthesis by infrared spectroscopic techniques, 393 (1999) 213

## Infrared instrument validation

Interreflection errors in Fourier transform spectroscopy: a preliminary appraisal, 380 (1999) 369

#### Infrared kinetic analysis

Effects of static spectrum removal and noise on 2D-correlation spectra of kinetic data, 368 (1998) 45

## Infrared laser ablation-inductively coupled plasma mass spectrometry

Quantitative in situ microanalysis of minor and trace elements in biogenic calcite using infrared laser ablation – inductively coupled plasma mass spectrometry: a critical evaluation, 378 (1999) 261

## Infrared regular reflectance

Infrared regular reflectance and transmittance instrumentation and standards at NIST, 380 (1999) 303

## Infrared remote sensing

Comparison of optimization algorithms for piecewise linear discriminant analysis: application to Fourier transform infrared remote sensing measurements, 331 (1996) 157

#### Infrared spectra

Variable selection in wavelet regression models, 368 (1998) 29

A numerical procedure for curve fitting of noisy infrared spectra, 376 (1998) 169

## Infrared spectrometry

Comparison of multivariate methods based on latent vectors and methods based on wavelength selection for the analysis of nearinfrared spectroscopic data, 304 (1995) 285

Study on spectral characterization of infrared flare material combustion with remote high resolution Fourier transform infrared spectrometry, 306 (1995) 249

Vapour generation Fourier transform infrared spectrometry. A new analytical technique, 308 (1995) 28

A near-infrared reflectance analysis method for the noninvasive identification of film-coated and non-film-coated, blister-packed tablets, 310 (1995) 43

A cyanine fluorophore with a hydrazide functionality as labelling reagent for aldehydes in liquid chromatography, 311 (1995) 47

Isolation of polybutenylsuccinimide-type dispersant from monograde and multigrade lubricating oils by classical liquid-adsorption chromatography on a Florisil column, 314 (1995) 161

Differential scanning calorimetric and Fourier transform infrared spectrometric investigations of the influence of silica on the liquid crystalline properties of 4'-cyano-4-biphenyl[4-(4-pentenyloxy)]benzoate, 315 (1995) 77

Spectral transformation and wavelength selection in near-infrared spectra classification, 315 (1995) 243

Calibration line adjustment to facilitate the use of synthetic calibration samples in near-infrared spectrometric analysis of pharmaceutical production samples, 315 (1995) 257

Simple encoding of infrared spectra for pattern recognition Part 2. Neural network approach using back-propagation and associative Hopfield memory, 316 (1995) 145

Quantitative molecular analysis by infrared spectrometry without standard materials, 316 (1995) 217

Comparison of an adaptive resonance theory based neural network (ART-2a) against other classifiers for rapid sorting of post consumer plastics by remote near-infrared spectroscopic sensing using an InGaAs diode array, 317 (1995) 1

Multivariate calibrations in Fourier transform infrared spectrometry for prediction of kerosene properties, 317 (1995) 95

EXPIRS, an expert system for generation of alternative sets of substructures, derived by infrared spectra interpretation, 321 (1996) 105

Characterization of engine motor oils dispersants of the polybutenylsuccinimide type by saponification, methylation and size exclusion chromatography, 322 (1996) 31 Infrared study of the interactions of moisture with filter paper and the moisture quenching of solid-matrix room temperature phosphorescence, 324 (1996) 61

Liquid chromatographic and infrared studies on ethylenediamineplatinum(II) guanosine complexes, 324 (1996) 155

Fourier transform infrared spectroscopy and the analytical study of works of art for purposes of diagnosis and conservation, 330 (1996) 207

Vapour generation-Fourier transform infrared spectrometric determination of benzene, toluene and methyl tert.-butyl ether in gasolines, 333 (1996) 157

Determination of pesticides in water using ATR-FTIR spectroscopy on PVC/chloroparaffin coatings, 334 (1996) 85

Optical sensing of pH based on polypyrrole films, 334 (1996) 149 Feature selection using the Kalman filter for classification of multivariate data, 335 (1996) 11

Quantitative determination of polymer and mineral content in paper coatings by infrared spectroscopy. Improvements by non-linear treatments, 335 (1996) 79

Direct vapor generation Fourier transform infrared spectrometric determination of ethanol in blood, 336 (1996) 123

Characterisation of an unusual crystalline efflorescence on an Egyptian limestone relief, 337 (1997) 151

Quantitative Fourier transform infrared spectroscopy of binary mixtures of fatty acid esters using partial least squares regression, 337 (1997) 191

Isolation of polybutenylsuccinimide-type dispersants from multigrade lubricating oils by classical cation exchange chromatography, 339 (1997) 109

On-line remote prediction of gasoline properties by combined optical methods, 339 (1997) 193

The prediction of coal properties using compressed infrared data from osculating polynomials, 340 (1997) 233

Diode laser induced near infra-red fluorescence detection for highperformance liquid chromatography analysis of indocyanine green in plasma, 342 (1997) 145

Gradient elution liquid chromatography-infrared spectrometry at µg I<sup>-1</sup> level using capillary column switching and addition of a make-up liquid. A preliminary study, 342 (1997) 151

Trace-level identity confirmation from infrared spectra by library searching and artificial neural networks, 345 (1997) 173

IR quantitative analysis of organic mixtures without any calibration, 353 (1997) 105

Which IR search system is better for selection of unknown structure analogues? 396 (1999) 99

## Infrared spectroscopy

Diffuse reflectance absorbance spectroscopy taking in chemometrics (DRASTIC). A hyperspectral FT-IR-based approach to rapid screening for metabolite overproduction, 348 (1997) 273

On the number of observable species, observable reactions and observable fluxes in chemometric studies and the role of multi-channel integration, 351 (1997) 337

Predicting chance infrared spectroscopic matching frequencies, 370 (1998) 181

Automatic classification of infrared spectra using a set of improved expert-based features, 388 (1999) 145

Joined knowledge- and signal processing for infrared spectrum interpretation, 393 (1999) 193

Determination of oil and grease by solid phase extraction and infrared spectroscopy, 395 (1999) 77

## Infrared spectrum

Simulation of infrared spectra using artificial neural networks based on semiempirical and empirical data, 331 (1996) 63

Computer-assisted IR spectra prediction – linked similarity searches for structures and spectra, 348 (1997) 327

## Infrared standards

The absolute calibration of mid-infrared transmittance standards, 380 (1999) 127

Interreflection errors in Fourier transform spectroscopy: a preliminary appraisal, 380 (1999) 369

## Ingamells sampling theory

Assessment of homogeneity of candidate reference material at the nanogram level and investigation on representativeness of single particle analysis using electron probe X-ray microanalysis, 389 (1999) 151

#### Inhibition

Fluoride determination by its inhibitory effect on immobilised liver esterase, 310 (1995) 173

Flow injection determination of metrifonate by immobilised acetylcholinesterase inhibition, 332 (1996) 179

Amperometric selective biosensing of dimetyyl- and diethyldithiocarbamates based on inhibition processes in a medium of reversed micelles, 340 (1997) 89

High sensitive bienzymic sensor for the detection of dithiocarbamate fungicides, 347 (1997) 63

Application of a sensitive catechol detector for determination of tyrosinase inhibitors, 362 (1998) 81

Non-aqueous flow-injection determination of atrazine by inhibition of immobilized tyrosinase, 362 (1998) 187

Use of a peroxidase reactor in flow injection analysis for the determination of chloramine and the inhibition kinetics, 390 (1999) 141

t-Cysteine determination using a polyphenol oxidase-based inhibition flow injection procedure, 399 (1999) 287

## Inhibitor detection

Amperometric flow-through biosensor for the determination of cholinesterase inhibitors, 385 (1999) 13

### Inhibitors

Advances in amperometric enzyme electrodes in reversed micelles, 315 (1995) 93

## Inhomogeneity

Detection of inhomogeneities in sets of NIR spectra, 330 (1996)

## In-house validation

Inter-laboratory, time, and fitness-for-purpose aspects of effective validation, 391 (1999) 159

#### In-line concentration

Potentiometric flow injection determination of cadmium in waste waters including in-line ion-exchange separation/concentration, 366 (1998) 155

## In-line polishing

Accelerated measurement of groundwater redox potentials: method and application, 396 (1999) 23

#### In-line reactor

Ultraviolet detection of peptides by reversed-phase liquid chromatography using an in-line reactor containing copper metal, 309 (1995) 169

## In-line sample preparation

Sample preparation in sequential injection analysis. Spectrophotometric determination of total phosphorus in food samples, 371 (1998) 57

#### Inner filter effects

Correction of fluorescence inner filter effects and the partitioning of pyrene to dissolved organic carbon, 338 (1997) 155

## In-nitrogen

Quantitative millimetre wavelength spectrometry. Part IV. Response curves for oxygen in carbon dioxide and nitrogen at 60 GHz, 367 (1998) 245

#### Inorganic acids

Measurement of inorganic acids with rotating ball inlet mass spectrometry, 390 (1999) 185

### Inorganic additives

Improvement of the analytical characteristics of an enzyme electrode for free and total cholesterol via laponite clay additives, 317 (1995) 275

## Inorganic analysis

light on the next millennium, 400 (1999) 281

## Inorganic anions

Simultaneous determination of inorganic anions and carboxylic acids in wine using isocratic separation on a permanently coated reversed-phase column and UV indirect detection, 321 (1996) 263

Determination of inorganic anions in water samples by ionexchange chromatography with chemiluminescence detection based on the neutralization reaction of nitric acid and potassium hydroxide, 331 (1996) 239

Microcolumn ion chromatography of inorganic UV-absorbing anions using bovine serum albumin as stationary phases, 335 (1996) 261

Evaluation of sulfobetaine-type zwitterionic stationary phases for ion chromatographic separation using water as a mobile phase, 349 (1997) 231

Simultaneous amperometric and potentiometric detection of inorganic anions in flow systems using platinum and silver/silver chloride electrodes, 350 (1997) 1

Simultaneous determination of common inorganic anions, magnesium and calcium ions in various environmental waters by indirect UV-photometric detection ion chromatography using trimellitic acid-EDTA as eluent, 373 (1998) 189

Characteristic conversion of ion pairs among anions and cations for determination of anions in electrostatic ion chromatography using water as a mobile phase, 379 (1999) 23

On-line ion-exchange preconcentration in a flow injection system coupled to capillary electrophoresis for the direct determination of UV absorbing anions, 390 (1999) 39

## Inorganic cations

Flow injection analysis-capillary electrophoresis system with hydrodynamic injection, 378 (1999) 55

## Inorganic germanium

Separation and determination of trace inorganic germanium in βcarboxyethylgermanium sesquioxide by filtration chromatography and hydride generation-graphite furnace atomic absorption spectrometry, 330 (1996) 53

Evaluation of gas chromatography with a flame photometric detector based on quartz surface-induced emission for determining the speciation of inorganic and methylgermanium compounds, 337 (1997) 83

## **Inorganic mercury**

Stability of bacterium-mercury complexes and speciation of soluble inorganic mercury species, 330 (1996) 89

## Inorganic phosphate

An amperometric-enzymatic method for assays of inorganic phosphate and adenosine deaminase in serum based on the measurement of uric acid with a dialysis membrane-covered carbon electrode, 303 (1995) 301

## Inorganic silica glass

Porphyrin-doped sol-gel glass as a probe for oxygen sensing, 342 (1997) 181

## Inorganic sulfur

Determination of sulfide by square-wave polarography, 351 (1997) 115

### Inosin

Indicator-free electrochemical DNA hybridization biosensor, 375 (1998) 197

## Inosine monophosphate

Simultaneous biosensing of inosine monophosphate and glutamate by use of immobilized enzyme reactors, 358 (1998) 127

## Inositolhexakisphosphate

Use of immobilized 3-phytase and flow injection for the determination of phosphorus species in natural waters, 316 (1995) 277

## Insecticides

Determination of pyrethroid insecticides by ion trap GC-MS-MS, 317 (1995) 137

A monoclonal antibody-based ELISA for the analysis of azinphosmethyl in fruit juices, 347 (1997) 95

A sensitive voltammetric method for the determination of parathion insecticide, 396 (1999) 39

## In-situ analysis

On-line voltammetric monitoring of dissolved Cu and Ni in the Gulf of Cadiz, south-west Spain, 377 (1998) 205

## In-situ measurements

Stripping voltammetry for the determination of trace metal speciation and in-situ measurements of trace metal distributions in marine waters, 400 (1999) 381

## In-situ preconcentration

Behaviour of matrix cations (Ca<sup>2+</sup>, K<sup>+</sup>, Mg<sup>2+</sup> and Na<sup>+</sup>) during online preconcentration and atomic spectrometric detection of trace metals in natural waters, 351 (1997) 311

#### Instability

Stability studies of arsenate, monomethylarsonate, dimethylarsinate, arsenobetaine and arsenocholine in deionized water, urine and clean-up dry residue from urine samples and determination by liquid chromatography with microwave-assisted oxidationhydride generation atomic absorption spectrometric detection, 340 (1997) 209

## Instrument interfacing

The role of laboratory information management systems (LIMS) in analytical method validation, 391 (1999) 149

#### Instrument standardization

Calibration transfer from a scanning near-IR spectrophotometer to a FT-near-IR spectrophotometer, 349 (1997) 263

## Instrument validation

The absolute calibration of mid-infrared transmittance standards, 380 (1999) 127

## Instrumental analysis

Determination of platinum and gold in anticancer and antiarthritic drugs and metabolites, 334 (1996) 5

## Instrumental neutron activation analysis (INAA)

Platinum determination by instrumental neutron activation analysis with special reference to the spectral interference of Sc-47 on the platinum indicator nuclide Au-199, 360 (1998) 243

Multielement instrumental activation analysis based on gammagamma coincidence spectroscopy, 386 (1999) 181

## Instrumental spectroscopic factors optimization

Spectroscopic factors optimization in electrothermal atomic absorption spectrometry via an optimal experimental design matrix, 350 (1997) 171

## Insulinoma cell line

Simultaneous analysis of membrane potential and calcium mobilization in a pancreatic B-cell line MIN6 by use of a double-probe imaging microscope-system, 365 (1998) 3

### Intact tablet analysis

Determination of paracetamol in intact tablets by use of near infrared transmittance spectroscopy, 383 (1999) 283

## Intact tablets

Analytical control of pharmaceutical production steps by near infrared reflectance spectroscopy, 392 (1999) 237

## Integer genetic algorithm (IGA)

Clustering data using a modified integer genetic algorithm (IGA), 354 (1997) 263

## Integral absorbance

On the number of observable species, observable reactions and observable fluxes in chemometric studies and the role of multi-channel integration, 351 (1997) 337

## Integrated conductimetric detection

Integrated conductimetric detection: mass distribution in a dynamic sample zone inside a flow injection manifold, 379 (1999) 99

## Integrated enzyme electrodes

Glucose oxidase electrodes via reconstitution of the apo-enzyme: tailoring of novel glucose biosensors, 385 (1999) 45

## Integrated pervaporation

Nitrogen speciation analysis in solid samples by integrated pervaporation and detection, 354 (1997) 135

## Integrated sensor

Integrated sensor for continuous flow electrochemiluminescent measurements of codeine with different ruthenium complexes, 392 (1999) 95

Electrochemical deposition and properties of polypyrrole films doped with calcion ligands, 395 (1999) 65

## Integrated square-wave detection

Waveform optimization for integrated square-wave detection of biogenic amines following their liquid chromatographic separation, 390 (1999) 45

## Integrated system

A new sample-injection/sample-dilution system for the flow-injection analytical technique, 381 (1999) 287

## Integrating sphere

In vitro measurement of sun protection factor of sunscreens by diffuse transmittance, 380 (1999) 155

Infrared diffuse reflectance instrumentation and standards at NIST, 380 (1999) 289

Investigation of the uniformity and ageing of integrating spheres, 380 (1999) 391

## Interactions

Enzyme-immunoassays for polychlorinated biphenyls: structural aspects of hapten-antibody binding, 347 (1997) 163

Voltammetric studies of the interaction of methylene blue with DNA by means of β-cyclodextrin, 394 (1999) 337

## Interactions with major components of seawater

Speciation of low molecular weight carboxylic ligands in natural fluids: protonation constants and association with major components of seawater of oxydiacetic and citric acids, 398 (1999) 103

## Interactive matrix interference

Detection and elimination of the constant error component and the interactive matrix interference in the determination of adsorbable organic halogen (AOX) in bleached kraft paper pulp mill effluents, 333 (1996) 139

#### Intercalation

Voltammetric determination of sequence-specific DNA by electroactive intercalator on graphite electrode, 335 (1996) 239

A strategy for the broad range detection of compounds with affinity for nucleic acids, 347 (1997) 79

## Intercalative association

Accumulation and trace measurements of phenothiazine drugs at DNA-modified electrodes, 332 (1996) 139

#### Intercomparison

Intercomparison of industrial near-infrared diffuse reflectance measurements, 380 (1999) 401

#### Interdigital array microelectrodes

Properties of interdigital electrode arrays with different geometries, 305 (1995) 126

#### Interdigitated array electrodes

Application of redox cycling enhanced current at an interdigitated array electrode for iron-trace determination in ultrapure spectral carbon, 305 (1995) 121

## Interdigitated electrodes

Glucose conductometric biosensor with potassium hexacyanoferrate(III) as an oxidizing agent, 374 (1998) 11

## Interdigitated microelectrode array

Titrations with electrogenerated hypobromite in the diffusion layer of interdigitated microelectrode array, 374 (1998) 283

## Interdigitated planar electrodes

Hydrogen peroxide - sensitive enzyme sensor based on phthalocyanine thin film, 391 (1999) 289

## Interfacial complexation

Acid-catalyzed interfacial complexation in the extraction kinetics of palladium(II) with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol, 364 (1998) 53

Isomer recognizing adsorption of palladium(II)-2-(5-bromo-2-pyridylazo)-5-diethylaminophenol with diazine derivatives at the toluene-water interface, 394 (1999) 23

## Interferences

A glucose sensor, interference free for ascorbic acid, 305 (1995)

Determination of atrazine and alachlor in natural waters by a rapidmagnetic particle-based ELISA Influence of common crossreactants: deethylatrazine, deisopropylatrazine, simazine and metolachlor, 311 (1995) 357

Determination of potentiometric selectivity, 321 (1996) 1

Study of interferences in graphite furnace atomic absorption spectrometry by means of experimental design, 327 (1996) 47

In situ biochemical reduction of interference in an amperometric biosensor with a novel heterobilayer configuration of polypyrrole/glucose oxidase/horseradish peroxidase, 329 (1996) 223 Cysteine enhancement of the cryogenic trap hydride AAS determination of dissolved arsenic species, 333 (1996) 89

Multivariate calibration transfer applied to the routine polarographic determination of copper, lead, cadmium and zinc, 348 (1997) 51

Peroxidase-based spectrophotometric methods for the determination of ascorbic acid, norepinephrine, epinephrine, dopamine and levodopa, 357 (1997) 261

Development of a method for the systematic use of bilinear multivariate calibration methods for the correction of interferences in inductively coupled plasma-mass spectrometry, 358 (1998) 205

Interference from chromate, germanate, tungstate and vanadate when determining phosphate in aqueous solution by the phosphoantimonylmolybdenum blue method, 358 (1998) 245

Off-line separation and determination of inorganic arsenic species in natural water by high resolution inductively coupled plasma mass spectrometry with hydride generation combined with reaction of arsenic(V) and L-cysteine, 375 (1998) 167

Empirical modelling of interferences in electrothermal atomization atomic absorption spectrometry, 376 (1998) 293

Kinetics based determination of trace amounts of silver at the excess of copper ions, 394 (1999) 185

## Interferences in mass spectrometry

Analytical problems in the determination of platinum-group metals in urine by quadrupole and magnetic sector field inductively coupled plasma mass spectrometry, 363 (1998) 1

## Interfering species

Optimization of an inorganic/bio-organic matrix for the development of new glucose biosensor membranes, 364 (1998) 165

## α-2 Interferon

 $\beta$ -Lactamase label-based potentiometric biosensor for  $\alpha$ -2 interferon detection, 390 (1999) 73

### Interferons

Biotinylated and streptavidinylated liposomes as labels in cytokine immunoassays, 306 (1995) 333

## Inter-instrument agreement

Improved model for improving the inter-instrument agreement of spectrocolorimeters, 380 (1999) 263

## Interlaboratory

Multi- and univariate interpretation of the interlaboratory validation of PrEN 12673; GC determination of chlorophenols in water, 388 (1999) 119

## Inter-laboratory studies

Site-specific natural isotope fractionation in fruit juices determined by deuterium NMR An European inter-laboratory comparison study, 321 (1996) 137

Inter-laboratory studies for the validation of solid-phase microextraction for the quantitative analysis of volatile organic compounds in aqueous samples, 356 (1997) 113

## Interleukins

Biotinylated and streptavidinylated liposomes as labels in cytokine immunoassays, 306 (1995) 333

## Intermetallic compounds

Qualitative and quantitative aspects of the application of genetic algorithm-based variable selection in polarography and stripping voltammetry, 378 (1999) 245

## Intermittent flow reactor

Studies on the reaction between cadmium and potassium tetrahydroborate in aqueous solution and its application in atomic fluorescence spectrometry, 310 (1995) 377

## Intermolecular interaction

Copper(II) binding abilities of molecular weight fractionated humic acids and their mixtures, 322 (1996) 173

#### Internal pressures

An investigation of internal pressures in capillary flow injection systems, 358 (1998) 95

## Internal quality control

Inter-laboratory, time, and fitness-for-purpose aspects of effective validation, 391 (1999) 159

## Internal standard

Application of thallium(I) as an internal standard redox process in voltammetric measurements, 331 (1996) 125

Improved detection of sugar addition to apple juices and concentrates using internal standard <sup>13</sup>C IRMS, 347 (1997) 359

Quantitative in situ microanalysis of minor and trace elements in biogenic calcite using infrared laser ablation – inductively coupled plasma mass spectrometry: a critical evaluation, 378 (1999) 261

Application of internal standard for micro extraction-spectrophotometric determination of copper in serum and in natural waters, 387 (1999) 217

### Internal standardization

Determination of trace elements in sea weed samples by inductively coupled plasma mass spectrometry, 355 (1997) 121

Determination of trace elements in shellfish tissue samples by inductively coupled plasma mass spectrometry, 382 (1999) 215

## Internal-surface reversed phase

Direct observation of sample trapping process onto internal-surface reversed-phase pre-column, 365 (1998) 115

### International nomenclature

Detection and quantification limits: origins and historical overview, 391 (1999) 127

## Interreflection errors

Interreflection errors in Fourier transform spectroscopy: a preliminary appraisal, 380 (1999) 369

### Interstitial fluid

Transcutaneous lactate monitoring based on a micro-planar amperometric biosensor, 312 (1995) 323

## Interval hypothesis testing

Comparison of alternative measurement methods, 391 (1999) 203

## Intestinal fluids

Determination of secnidazol in pharmaceutical tablets and intestinal fluids by differential pulse polarography, 332 (1996) 161

## Intracavity

The analytical potential of diode laser-based intracavity absorption detection in column liquid chromatography, 323 (1996) 1

#### Intrinsic fluorescence

Enzymatic determination of ethanol based on the intrinsic fluorescence of alcohol dehydrogenase, 343 (1997) 117

## Inverse derivative chronopotentiometry

Inverse derivative chronopotentiometry/quartz crystal microgravimetry of solid conducting salt films, 380 (1999) 47

### Inverse gas chromatography

Application of inverse gas chromatography to characterisation of a polypyrrole surface, 363 (1998) 147

## Inverse least squares

Selection of calibration mixtures and wavelengths for different multivariate calibration methods, 313 (1995) 93

## Inverse problems

An iterative method for solving inverse problems arising from dispersion in high pressure size exclusion chromatography, 392 (1999) 183

#### Invertase

Optical control of enzymatic conversion of sucrose to glucose by bacteriorhodopsin incorporated into self-assembled phosphatidylcholine vesicles, 311 (1995) 211

Simultaneous determination of enzyme activities by FTIR-spectroscopy in an one-step assay, 391 (1999) 19

## Investigation

Investigation of the uniformity and ageing of integrating spheres, 380 (1999) 391

### Iodat

Fabrication of a chemically modified electrode containing 12molybdophosphoric acid by the sol-gel technique and its application as an amperometric detector for iodate, 394 (1999) 73

## **Iodate determination**

Extraction equilibrium of the ion-associate of periodate with amiloride hydrochloride and simultaneous spectrophotometric determination of periodate and iodate by liquid-liquid extraction, 356 (1997) 85

### Iodide

Ultramicroelectrode study without deliberately added electrolyte: application to the analysis of liquid-liquid extraction processes in dichloromethane, 305 (1995) 137

Iodide buffer systems for the calibration of iodide-selective electrodes, 307 (1995) 37

Derivative dynamic response of ion-selective electrodes. Application to the precipitate-based iodide-selective electrode in the presence of interfering ions, 315 (1995) 63 Iodide-selective electrodes based on the silver(I) complex of a novel N-thiocarbamoylimine-dithioether derivative, 329 (1996) 247

Electrosynthesis of polypyrrole in iodide solution. Film growth, redox behaviour and potentiometric response, 355 (1997) 217

Titrations with electrogenerated hypobromite in the diffusion layer of interdigitated microelectrode array, 374 (1998) 283

Resonance Rayleigh scattering of chromium(VI)-iodide-basic triphenylmethane dye systems and their analytical application, 379 (1999) 53

Performance of arylboronic acids as ionophore for inorganic anions studied by fluorometry and potentiometry, 387 (1999) 189

#### Iodide anion

A new derivatization reagent 2-(pentafluorophenoxy)ethyl 2-(piperidino)ethanesulfonate for gas chromatography, 386 (1999) 113

#### Iodine

Electrosynthesis of polypyrrole in iodide solution. Film growth, redox behaviour and potentiometric response, 355 (1997) 217

Fluorimetric method for the determination of thiocyanate with 2',7'dichlorofluorescein and iodine, 394 (1999) 171

### Iodometric determination of oxidic impurities

Determination of oxidic impurities in some lead halides, 355 (1997)

#### Iodometry

Iodometric determination of gold and platinum by 168- and 126-fold chemical amplification reactions, 307 (1995) 139

Improved iodometric method for simultaneous determination of non-stoichiometric oxygen and total copper content in YBCO superconductors, 312 (1995) 227

## Ion adsorption type ore

Inductively coupled plasma-atomic emission spectral fitting analysis of rare-earth elements in ion-adsorption type ores, 362 (1998) 241

## Ion associates

Spectrophotometric method for the determination of an anionic surfactant without liquid-liquid extraction, 362 (1998) 157

Resonance Rayleigh scattering of chromium(VI)-iodide-basic triphenylmethane dye systems and their analytical application, 379 (1999) 53

Simple method for spectrophotometric determination of cationic surfactants without liquid-liquid extraction, 384 (1999) 215

## Ion chromatograph

Ion chromatograph with immobilized alkaline phosphatase reactor for the determination of adenosine phosphates, 384 (1999) 45

### Ion chromatography

Sequential determination of arsenite and arsenate by ion chromatography, 307 (1995) 79

Trace enrichment and ion chromatographic determination of metal oxoanions in environmental water samples, 309 (1995) 173

Determination of sodium, potassium, calcium and magnesium cations by capillary electrophoresis compared with ion chromatography, 314 (1995) 67

Simultaneous determination of alkali and alkaline earth metals by ion chromatography with neutral carrier-based ion-selective electrode detector, 315 (1995) 303

Oxygen bomb combustion ion chromatography for elemental analysis of heteroatoms in fuel and wastes development, 315 (1995) 347

Analysis of ammonia and methylamines in natural waters by flow injection gas diffusion coupled to ion chromatography, 316 (1995) 291

Monitoring of the ultrasonic irradiation effect on the extraction of airborne particulate matter by ion chromatography, 317 (1995) 171

Speciation of chromium in aquatic samples by coupled column ion chromatography-inductively coupled plasma-mass spectrometry, 318 (1996) 335

Simultaneous determination of inorganic anions and carboxylic acids in wine using isocratic separation on a permanently coated reversed-phase column and UV indirect detection, 321 (1996) 263

Direct determination of bromide ions in sea water by ion chromatography using water as the mobile phase, 322 (1996) 43

Determination of rare earth elements by ion chromatography. Separation procedure optimization, 322 (1996) 49

Indirect fluorometric detection for non-suppressed ion chromatographic separation of analyte anions using ruthenium(II) complex as ion-interaction reagent, 326 (1996) 67

Microcolumn ion chromatography of inorganic monovalent cations with indirect photometric detection and a silica gel column, 334 (1996) 39

Elemental analysis of chemical wastes by oxygen bomb combustion-ion chromatography, 334 (1996) 51

Microcolumn ion chromatography of inorganic UV-absorbing anions using bovine serum albumin as stationary phases, 335 (1996) 261

Characterisation of an unusual crystalline efflorescence on an Egyptian limestone relief, 337 (1997) 151

Investigation of the composition of a unique efflorescence on calcareous museum artifacts, 337 (1997) 253

Optimization of the ion-exchange analysis of organic acids from fermentation, 338 (1997) 69

A study of a permanently coated polymeric column for simultaneous separation of inorganic anions and mono-carboxylic acids, 339 (1997) 231

Determination of experimental diffusion coefficients of acetic acid and formic acid vapours in air using a passive sampler, 341 (1997) 1

A diffusion tube sampler for the determination of acetic acid and formic acid vapours in museum cabinets, 341 (1997) 11

Application of a silica gel column for the simultaneous determination of alkali and alkaline-earth metal ions with indirect photometric detection using benzyltrimethylammonium chloride as visualization agent, 341 (1997) 225

Learning classification rules from an ion chromatography database using a genetic based classifier system, 344 (1997) 1

Complex formation of 2-(5-nitro-2-pyridylazo)-5-(N-propyl-N-sulfo-propylamino)phenol with lead, cadmium and manganese for their sensitive spectrophotometric detection in flow injection and ion chromatography systems, 345 (1997) 139

- High selective determination of bromate in ozonized water by using ion chromatography with postcolumn derivatization equipped with reagent preparation device, 346 (1997) 299
- Evaluation of sulfobetaine-type zwitterionic stationary phases for ion chromatographic separation using water as a mobile phase, 349 (1997) 231
- Simultaneous amperometric and potentiometric detection of inorganic anions in flow systems using platinum and silver/silver chloride electrodes, 350 (1997) 1
- Automated analysis of low-molecular weight organic acids in ambient air by a microporous tube diffusion scrubber system coupled to ion chromatography, 353 (1997) 227
- Determination of lanthanides by ion chromatography. Separation and retention mechanism, 353 (1997) 239
- Improvement on simultaneous determination of chromium species in aqueous solution by ion chromatography and chemiluminescence detection, 354 (1997) 107
- Ion chromatographic behavior of alkali and alkaline earth metal cations on silica gel columns with cation exchange characteristics, 359 (1998) 255
- Simultaneous determination of caffeine, theobromine and theophylline in foods and pharmaceutical preparations by using ion chromatography, 371 (1998) 287
- Systematic approach to the identification of water-gel explosives, 375 (1998) 255
- Determination of components in biological media by ion chromatography with series bulk acoustic wave detection, 378 (1999) 95
- Characteristic conversion of ion pairs among anions and cations for determination of anions in electrostatic ion chromatography using water as a mobile phase, 379 (1999) 23
- Simultaneous determination of common mono- and divalent cations in natural water samples by conductimetric detection ion chromatography with an unmodified silica gel column and oxalic acid/18-crown-6 as eluent, 381 (1999) 265
- Simultaneous determination of inorganic anions and metal ions by suppressed ion chromatography, 382 (1999) 291
- Simple procedure for ion chromatographic determination of anions and cations at trace levels in ice core samples, 389 (1999) 21

### Ion exchange

- Voltammetric determination of trace mercury in chloride media at glassy carbon electrodes modified with polycationic ionomers, 305 (1995) 74
- Determination of traces of copper by anodic stripping voltammetry after its preconcentration via an ion-exchange route at carbon paste electrodes modified with vermiculite, 305 (1995) 176
- β-Cyclodextrin cation exchange polymer membrane for improved second-generation glucose biosensors, 306 (1995) 201
- Determination of cadmium in foodstuffs and plant materials by flow injection-spectrophotometry including ion exchange, 306 (1995) 343
- Evaluation of acoustic emission as a means for carbonate determination, 309 (1995) 283
- Separation and preconcentration of actinides by extraction chromatography using a supported liquid anion exchanger: application to the characterization of high-level nuclear waste solutions, 310 (1995) 63

- On-line ion exchange system coupled to inductively coupled plasma atomic emission spectrometer with ultrasonic nebulization for the separation, preconcentration and determination of arsenic(V) and monomethylarsonate, 313 (1995) 243
- Chromium(III) binding abilities of humic acids, 317 (1995) 195
- Application of ion-exchanger phase visible light absorption to flow analysis. Determination of vanadium in natural water and rock, 317 (1995) 207
- Selective preconcentration of gallium using Muromac A-1 ion exchange column, 318 (1995) 113
- Trace element characterization of high purity gallium, 318 (1996)
- Spectrographic determination of gold in geological materials after preconcentration on Spheron-Thiol, 320 (1996) 145
- Separation of vanadium(V) and -(IV) by sorption on an iminodiacetic chelating resin, 323 (1996) 27
- Determination of the speciation of chromium with an automated two-column ion-exchange system, 326 (1996) 85
- Search for chemical separation of element 106 homologues in HF and HF-HCl media, 332 (1996) 257
- Determination of impurities in high-purity selenium by inductively coupled plasma mass spectrometry after acetate-form anionexchange separation, 333 (1996) 51
- Novel separation of inorganic anions using a charged complex ionexchanger, 334 (1996) 1
- Determination of lead and cadmium in human hair by atomic absorption spectrometric procedures after solid phase extraction, 337 (1997) 329
- Anion-exchange resin modified with pyrocatechol violet as a functional resin for retention of Sn(IV), 338 (1997) 231
- Factors affecting the analytical applications of zeolite-modified electrodes Preconcentration of electroactive species, 340 (1997) 61
- Stable chlorine-isotope analysis of rock samples: New aspects of chlorine extraction, 362 (1998) 261
- Performance characteristics for the measurement of Cs and Sr by diffusive gradients in thin films (DGT), 368 (1998) 243
- Zeolite-modified electrodes in electroanalytical chemistry, 384 (1999) 1
- Selective monitoring of Cu<sup>(11)</sup> species using a silica modified carbon paste electrode, 385 (1999) 79
- Factors affecting the analytical applications of zeolite modified electrodes: indirect detection of nonelectroactive cations, 388 (1999) 79
- On-line ion-exchange preconcentration in a flow injection system coupled to capillary electrophoresis for the direct determination of UV absorbing anions, 390 (1999) 39
- Molecularly imprinted ion exchange resin for purification, preconcentration and determination of { UO}<sub>2</sub><sup>2+</sup>by spectrophotometry and plasma spectrometry, 397 (1999) 173

## Ion exchange chemistry

Sampling aerosols for lead isotopes on a global scale, 390 (1999) 227

## Ion exchange chromatography

Behaviour of Zr, Hf, Nb, Ta and Pa on macroporous anion exchanger in chloride–fluoride media, 374 (1998) 149

## Ion exchange modified electrode

Comparison of two kinetic approaches for copper speciation using ion-exchange columns and ion-exchange modified carbon paste electrodes, 382 (1999) 179

## Ion exclusion chromatography

Determination of small carboxylic acids by ion exclusion chromatography with electrospray mass spectrometry, 341 (1997) 205

Degradation of cellulosic materials under the alkaline conditions of a cementitious repository for low and intermediate level radioactive waste. Part I: Identification of degradation products, 398 (1999) 111

## Ion implantation

Ag<sup>+</sup> sensitive membrane of sub-μm thickness prepared by ion implantation, 306 (1995) 1

Surface roughness with nanometer-scale Ag particles generated by ion implantation, 350 (1997) 209

## Ion mobility spectrometry

Qualitative and quantitative evaluation of deconvolution for ion mobility spectrometry, 303 (1995) 163

The determination of aqueous ammonia by ion mobility spectrometry, 311 (1995) 77

An automated sampling system using ion mobility spectrometry for the rapid detection of bacteria, 313 (1995) 63

Fourier transform electrospray ion mobility spectrometry, 334 (1996) 75

Characterisation of the molecular ions produced by a dinitroalkane in positive mode ion mobility spectrometry with water, dichloromethane and ammonia reactant ion chemistries, 374 (1998) 253

Characterisation of the ion mobility spectrometric behaviour of a dinitrobutane under varying conditions of temperature and concentration, 375 (1998) 49

Extending the concentration and linear dynamic range of ion mobility spectrometry with a sheath flow inlet, 381 (1999) 69

## Ion pairs

Study of the performance of an optochemical sensor for ammonia, 320 (1996) 235

Synthesis and characterization of fluorophore-absorber pairs for sensing of ammonia based on fluorescence, 360 (1998) 119

## Ion selective electrodes

Anion selective polymeric membrane electrodes based on metallocenes, 304 (1995) 171

Evaluation of the ion selective electrodes module in the DAX analyzers, 305 (1995) 304

Ag\* sensitive membrane of sub-μm thickness prepared by ion implantation, 306 (1995) 1

Iodide buffer systems for the calibration of iodide-selective electrodes, 307 (1995) 37

Conductive epoxy-graphite composite as a solid internal reference in a NASICON-based sodium ion-selective electrode for flowinjection analysis, 308 (1995) 102

Flow-through tubular ion-selective electrodes responsive to anionic surfactants for flow-injection analysis, 308 (1995) 115 Construction and use of a tubular picrate ion-selective electrode for reducing sugar determination in Port wine by flow-injection analysis, 308 (1995) 122

Lipophilicity of tetraphenylborate derivatives as anionic sites in neutral carrier-based solvent polymeric membranes and lifetime of corresponding ion-selective electrochemical and optical sensors, 309 (1995) 7

Novel response mechanism and application of sulfite sensitive polymeric membrane electrode based on dithiocarbamate complexes of mercury(II), 310 (1995) 211

Differential flow injection potentiometry, 311 (1995) 175

Potentiometric determination of tanatalum with a hexafluorotantalate(V)-selective liquid membrane electrode, 311 (1995) 183

Ion-selective electrode for procainamide determination in blood serum, 312 (1995) 35

Vitamin B<sub>1</sub> ion-selective microelectrode based on a liquid-liquid interface at the tip of a micropipette, 312 (1995) 329

Differential flow-injection potentiometry with double sensitivity using one ion-selective membrane, 313 (1995) 83

Cu2+- and Cd2+-buffers in water-ethanol media, 315 (1995) 55

Derivative dynamic response of ion-selective electrodes. Application to the precipitate-based iodide-selective electrode in the presence of interfering ions, 315 (1995) 63

Solid-contact ion-selective electrode with stable internal electrode, 320 (1996) 53

Effect of pressure on the potentiometric response of ion-selective electrodes and reference electrodes, 320 (1996) 69

Determination of cholinesterase in blood serum using a benzoateselective membrane electrode made with heptyl-4-trifluoroacetylbenzoate neutral carrier, 321 (1996) 21

Photocured polymers in ion-selective electrode membranes. Part 5: Photopolymerised sodium sensitive ion-selective electrodes for flow injection potentiometry, 334 (1996) 133

Lithium determination in artificial serum using flow injection systems with a selective solid-state tubular electrode based on NASICON membranes, 350 (1997) 7

Application of a bis-thiourea ionophore for an anion selective electrode with a remarkable sulfate selectivity, 358 (1998) 35

Development of a potentiometric procedure for determination of glycerol and 2,3-butanediol in wine by sequential injection analysis, 366 (1998) 193

Physicochemical understanding of the selectivity at an ion selective electrode of the liquid membrane type and relation between the selectivity and distribution ratios in the ion-pair extraction, 374 (1998) 269

Hydrogen ion selective electrode based on poly(1-aminoanthracene) film, 377 (1998) 21

Influence of lipophilic anionic compounds on the selectivity of ionselective electrodes based on podands with phosphoryl complexing groups, 385 (1999) 125

Plutonium(III)-ion selective electrode of liquid membrane type using multidentate phosphine oxide ionophore, 387 (1999) 181

### Ion selective membranes

One-component room temperature vulcanizing-type silicone rubber-based sodium-selective membrane electrodes, 355 (1997) 249

## Ion selectivity

Switching of ion selectivity of membranes by lipophilic ionic sites, 326 (1996) 163

## Ion sensitive electrode

Polymeric membrane phosphate sensitive electrode based on binuclear organotin compound, 338 (1997) 209

#### Ion sensitive field effect transistor

Correlation between the electrical charge properties of polymeric membranes and the characteristics of ion field effect transistors or penicillinase based enzymatic field effect transistors, 331 (1996) 217

#### Ion sensor

Molecular design, characterization, and application of multi-information dyes for multi-dimensional optical chemical sensing. Molecular design concepts of the dyes and their fundamental spectral characteristics, 373 (1998) 271

Theory and practice of rapid flow-through analysis based on ionselective optode detection and its application to sodium ion determination, 396 (1999) 131

## Ion trap mass spectrometry

Notched broad-band excitation of ions in a bench-top ion trap mass spectrometer, 303 (1995) 149

Affinity liquid membrane introduction mass spectrometry, 395 (1999) 239

## Ion/molecule reactions

Notched broad-band excitation of ions in a bench-top ion trap mass spectrometer, 303 (1995) 149

### Ion-associate

Extraction equilibrium of the ion-associate of periodate with amiloride hydrochloride and simultaneous spectrophotometric determination of periodate and iodate by liquid-liquid extraction, 356 (1997) 85

## Ion-exchange

Determination of triphenyltin in sea water samples by liquid chromatography with fluorimetric detection, 302 (1995) 185

Functional-group effects on the ion-exchange properties of organically modified silicates, 397 (1999) 113

## Ion-exchange column

Comparison of two kinetic approaches for copper speciation using ion-exchange columns and ion-exchange modified carbon paste electrodes, 382 (1999) 179

## Ion-exchange liquid chromatography

Quantitative analysis of human serum albumin-drug interactions using reversed-phase and ion-exchange liquid chromatography, 378 (1999) 77

## Ion-exclusion chromatography

Simultaneous determination of aliphatic and aromatic acids in plant tissue extracts by ion-exclusion chromatography, 386 (1999) 249

## Ion-extraction

Influence of nonionic surfactants on the optical response of cation selective membrane films, 397 (1999) 287

#### Ionic conductor

Detection and selectivity properties of Li\*-ion-selective electrodes based on NASICON-type ceramics, 354 (1997) 291

## Ionic equilibria

PKPOT, a program for the potentiometric study of ionic equilibria in aqueous and non-aqueous media, 317 (1995) 75

#### Ionic interactions

The effects of solution conditions on partial specific volumes of humic substances, 362 (1998) 299

#### Ionic lines

Selection of self-absorption free analytical lines of aluminum in glow discharge optical emission spectrometry, 343 (1997) 267

#### Ionic sensor

Development of a new photopolymerizable membrane for monochloroacetate sensitive potentiometric sensors, 386 (1999) 13

## Ionic surfactants

Adsorption determination of ionic surfactants using an electrodeseparated piezoelectric quartz crystal, 339 (1997) 187

Potentiometric analysis of ionic surfactants by a new type of ionselective electrode, 349 (1997) 59

## Ion-interaction reagent

Indirect fluorometric detection for non-suppressed ion chromatographic separation of analyte anions using ruthenium(II) complex as ion-interaction reagent, 326 (1996) 67

### Ionizable compounds

Chromatographic behaviour of ionizable compounds in liquid chromatography. Part 1. pH scale, pK<sub>a</sub> and pH<sub>S</sub> values for standard buffers in tetrahydrofuran-water, 389 (1999) 31

### Ionizable sites

Comparison of methodologies for determination of carboxylic and phenolic groups in humic acids, 364 (1998) 223

### Ionization chamber

Ionization chamber as a gas sensor: organophosphorus compound detection, 331 (1996) 233

### Ionization efficiencies

Supersonic jet multiphoton ionization mass spectrometry using nanosecond and femtosecond pulse lasers, 343 (1997) 129

## Ionization potential

The relationship between relative sensitivity factors and ionization potential in dc glow discharge mass spectrometry using Ar/0.2 vol.% H<sub>2</sub> mixture, 355 (1997) 129

Influence of ionization energy on charge-transfer ionization in matrix-assisted laser desorption/ionization mass spectrometry, 397 (1999) 235

## Ion-molecule reactions

Ionization chamber as a gas sensor: organophosphorus compound detection, 331 (1996) 233

#### Ionophores

Ammonia selective bulk acoustic wave sensor based on neutral ionophores, 312 (1995) 9

Response mechanism of anion-selective electrodes based on mercury organic compounds as ionophores, 327 (1996) 17

Selectivity comparison of neutral carrier-based ion-selective optical and potentiometric sensing schemes, 350 (1997) 329

Polysiloxane based CHEMFETs for selective detection of Ca<sup>2+</sup> ions, 357 (1997) 225

Application of a bis-thiourea ionophore for an anion selective electrode with a remarkable sulfate selectivity, 358 (1998) 35

Poly(vinyl) chloride membrane caesium-selective electrodes based on doubly crowned 1,3-calix[4]arenes, 371 (1998) 155

Sulfate-selective PVC membrane electrodes based on a derivative of imidazole as a neutral carrier, 382 (1999) 165

Hydrogen sulfite optical sensor based on a lipophilic guanidinium ionophore, 388 (1999) 63

Theory and practice of rapid flow-through analysis based on ionselective optode detection and its application to sodium ion determination, 396 (1999) 131

## Ion-pair

Flame atomic absorption spectrometric determination of cobalt in biological materials using a flow-injection system with on-line preconcentration by ion-pair adsorption, 316 (1995) 329

## Ion-pair chromatography

Determination of the marker residue of albendazole in milk using ion-pair liquid chromatography and fluorescence detection, 345 (1997) 111

Evaluation of trifluoroacetic acid as an ion-pair reagent in the separation of small ionizable molecules by reversed-phase liquid chromatography, 399 (1999) 249

Tracing polar benzene- and naphthalenesulfonates in untreated industrial effluents and water treatment works by ion-pair chromatography-fluorescence and electrospray-mass spectrometry, 400 (1999) 211

## Ion-pair coextraction

Optode for the specific determination of anionic surfactants, 361 (1998) 55

## Ion-pair countercurrent chromatography

Recent advances in peptide separation by countercurrent chromatography, 352 (1997) 411

## Ion-pair diastereomeric complex

Phase-modulation fluorescence lifetime resolution of quinine and quinidine by ion-pair diastereomeric complexation, 381 (1999) 11

## Ion-pair extraction

Ion-pair extraction behavior of transition metal(II) cations as charged complexes with ethylenediamine derivatives having heterocyclic pendant arms, 339 (1997) 115 Physicochemical understanding of the selectivity at an ion selective electrode of the liquid membrane type and relation between the selectivity and distribution ratios in the ion-pair extraction, 374 (1998) 269

### Ion-pair liquid chromatography

Retention behaviour of the sulphoxide, sulphone and 2-aminosulphone metabolites of albendazole in ion-pair liquid chromatography, 354 (1997) 115

#### Ion-pairs

Ionic equilibria in aqueous organic solvent mixtures The dissociation constants of acids and salts in tetrahydrofuran/water mixtures, 340 (1997) 133

## Ion-selective electrodes

A potassium-ion selective electrode with valinomycin based poly(vinyl chloride) membrane and a poly(vinyl ferrocene) solid contact, 302 (1995) 241

Application of potentiometric stripping analysis for speciation of copper complexes with adsorbable ligands on the mercury electrode, 314 (1995) 241

Simultaneous determination of alkali and alkaline earth metals by ion chromatography with neutral carrier-based ion-selective electrode detector, 315 (1995) 303

Asymmetric cellulose acetate membrane-based carbonate- and chloride-selective electrodes, 315 (1995) 311

New cocaine-selective membrane electrode, 316 (1995) 371

Application of a new phosphadithiamacrocycle to ClO-4-selective CHEMFET and ion-selective electrode devices, 320 (1996) 63

Determination of potentiometric selectivity, 321 (1996) 1

Metalloporphyrin-based polymer membrane electrode with high selectivity for 2-hydroxybenzhydroxamate, 321 (1996) 11

Conducting polymer-based ion-selective electrodes, 322 (1996) 141Organic ammonium ion selective electrodes based on 18-crown-6-phosphotungstic acid precipitates, 324 (1996) 125

Response mechanism of anion-selective electrodes based on mercury organic compounds as ionophores, 327 (1996) 17

PVC membrane lithium-selective electrodes based on oligomethylene-bridged bis-1,10-phenanthroline derivatives, 329 (1996) 57

Iodide-selective electrodes based on the silver(I) complex of a novel N-thiocarbamoylimine-dithioether derivative, 329 (1996) 247

Determination of copper in natural waters by batch and oscillating flow injection stripping potentiometry, 330 (1996) 79

Photocured polymers in ion-selective electrode membranes Part 6: Photopolymerized lithium sensitive ion-selective electrodes for flow injection potentiometry, 335 (1996) 111

Sodium-selective electrodes based on triester monoacid derivatives of p-tert-butylcalix[4]arene. Comparison with tetraester calix[4]arene ionophores, 336 (1996) 1

Paraquat sensors containing membrane components of high lipophilicities, 338 (1997) 89

Buffer composition suitable for determining very low fluoride concentrations using a fluoride ion-selective electrode and its application to the continuous analysis of rain water, 338 (1997)

Hydrogen bond based recognition of nucleotides by neutral-carrier ion-selective electrodes, 341 (1997) 129

Determination of free disopyramide in blood serum in situ using a disopyramide-sensitive membrane electrode, 343 (1997) 79

Potentiometric analysis of ionic surfactants by a new type of ionselective electrode, 349 (1997) 59

Selectivity comparison of neutral carrier-based ion-selective optical and potentiometric sensing schemes, 350 (1997) 329

Detection and selectivity properties of Li<sup>+</sup>-ion-selective electrodes based on NASICON-type ceramics, 354 (1997) 291

Tris(2-ethylhexyl) phosphate and tricresyl phosphate as new neutral carriers for organic ammonium ion-selective membrane electrodes, 354 (1997) 301

Analysis of bioactive fluoride-containing calcium aluminosilicate glasses, 358 (1998) 79

Potentiometric behavior of metalloporphyrin-based ion-selective electrodes: Use of silicone rubber matrix for serum chloride analysis, 367 (1998) 175

Poly(vinyl) chloride membrane caesium-selective electrodes based on doubly crowned 1,3-calix[4]arenes, 371 (1998) 155

Flow injection potentiometry by poly(vinyl chloride)-membrane electrodes with substituted azacrown ionophores for the determination of lead(II) and mercury(II) ions, 372 (1998) 387

Molybdate sensor based on 5,10,15,20-tetraphenylporphyrinatocobalt complex in a PVC matrix, 379 (1999) 201

Potentiometric anion response of poly(5,15-bis(2-aminophenyl)porphyrin) electropolymerized electrodes, 381 (1999) 197

Novel sensors for potassium, calcium and magnesium ions based on a silicon transducer as a light-addressable potentiometric sensor, 382 (1999) 131

New potentiometric gas-gap sensor, 385 (1999) 137

Copper potentiometric sensors based on copper complexes containing thiohydrazone and thiosemicarbazone ligands, 385 (1999) 143

Characterization of a single-piece all-solid-state lithium-selective electrode based on soluble conducting polyaniline, 385 (1999) 163

Disposable strip potentiometric electrodes with solvent-polymeric ion-selective membranes fabricated using screen-printing technology, 385 (1999) 451

Performance of arylboronic acids as ionophore for inorganic anions studied by fluorometry and potentiometry, 387 (1999) 189

Separation and preconcentration of fluoride at the ng ml<sup>-1</sup> level with a polymer complex of zirconium(IV) followed by potentiometric determination in a flow system, 388 (1999) 201

Ion sensors: current limits and new trends, 393 (1999) 11

Potentiometric properties and impedance spectroscopic data of poly(vinyl chloride) membranes containing quaternary ammonium salts of different chemical structure, 393 (1999) 19

Determination of formal complex formation constants of various Pb<sup>2+</sup> ionophores in the sensor membrane phase, 395 (1999) 41

Electrochemical deposition and properties of polypyrrole films doped with calcion ligands, 395 (1999) 65

Determination of histamine release from mast cells using a histamine-sensitive membrane electrode, 396 (1999) 189

## Ion-selective field-effect transistors (ISFET)

Novel membrane material for ion-selective field-effect transistors with extended lifetime and improved selectivity, 335 (1996) 103 PVC-matrix membrane ion-selective sensors for gold determination in cyanide solutions, 357 (1997) 231

## Ion-selective liquid membrane

Shift and drift of electromotive forces of solid-state electrodes with ion-selective liquid membranes, 331 (1996) 85

## Ion-selective optode

Theory and practice of rapid flow-through analysis based on ionselective optode detection and its application to sodium ion determination, 396 (1999) 131

#### Ion-selective piezoelectric sensor

Preparation and application of chlorpheniramine ion-selective piezoelectric sensor based on selective adsorption, 395 (1999)

## Ion-selective QCM sensor

Orthophosphate ion-sensors based on a quartz-crystal microbalance coated with insoluble orthophosphate salts, 338 (1997) 77

#### Ion-selective sensors

Planar waveguide ion-selective sensors, 353 (1997) 1

PVC-matrix membrane ion-selective sensors for gold determination in cyanide solutions, 357 (1997) 231

## Ion-sensitive electrode

Copper(II) ion-sensitive electrode using chemical vapor deposited Nb-Ge superconducting films, 382 (1999) 151

## Ion-sensitive field-effect transistor

Development of a new ion-selective field-effect transistor sensor for anionic surfactants: Application to potentiometric titrations, 382 (1999) 157

### Ion-size selective masking reagent

Quantitative extraction separation systems of alkali and alkaline earth metal ions using cryptands as ion-size selective masking reagents, 394 (1999) 317

## Ion-spray MS

Determination of cobalamins and cobinamides by microbore reversed-phase HPLC with spectrophotometric, ion-spray ionization MS and inductively coupled plasma MS detection, 359 (1998) 227

## Ion-transfer polarography

Plutonium(III)-ion selective electrode of liquid membrane type using multidentate phosphine oxide ionophore, 387 (1999) 181

## **Iprodione**

Resolution of overlapping peaks in HPLC with diode array detection by application of partial least squares calibration to cross-sections of spectrochromatograms, 348 (1997) 177

## IR and potentiometric evidence

Experimental evidence that hydroxyethylcarbamic acid is not a major product of the reaction between hydroxyethylamine and CO<sub>2</sub> in the presence of water, 356 (1997) 93

## Irganox 1076

Determination of the antioxidant Irganox 1076 by anodic voltammetry and flow injection with pulsed amperometric detection at a glassy carbon electrode, 305 (1995) 324

## **IRGAROL 1051**

Simultaneous analysis of the antifouling agents: tributyltin, triphenyltin and IRGAROL 1051 in marina water samples, 335 (1996) 267

## Irgarol 1051

Preparation of antisera and development of a direct enzyme-linked immunosorbent assay for the determination of the antifouling agent Irgarol 1051, 347 (1997) 139

## Irish whiskey

Authentication and differentiation of irish whiskeys by higheralcohol congener analysis, 381 (1999) 257

#### IRMS

Improved detection of sugar addition to apple juices and concentrates using internal standard <sup>13</sup>C IRMS, 347 (1997) 359

Stable chlorine-isotope analysis of rock samples: New aspects of chlorine extraction, 362 (1998) 261

#### Iron

Determination of iron in high-purity phosphoryl chloride by electrothermal atomization atomic absorption spectrometry, 304 (1995) 237

Application of redox cycling enhanced current at an interdigitated array electrode for iron-trace determination in ultrapure spectral carbon, 305 (1995) 121

The simultaneous speciation of aluminium and iron in a flowinjection system, 306 (1995) 5

Three pressurized mineralization procedures that permit subsequent flame atomic spectrometric determination of Ca, Fe, K, Mg and Zn in bovine blood plasma-containing cookies and in standard reference materials, 306 (1995) 139

Application of photoacoustic spectrometry to flow-injection analysis, 308 (1995) 20

Determination of iron and zinc in adipose tissue by on-line microwave-assisted mineralization and flow-injection graphite furnace atomic absorption spectrometry, 308 (1995) 349

Flow-injection spectrophotometric determination of trace iron in various salts. Elimination of blank peak effect and use of 2-(5nitro-2-pyridylazo)-5-(N-propyl-N-sulfopropylamino)phenol as chromogenic agent, 308 (1995) 433

Simultaneous multielement determination in complex matrices using frequency-modulated electrothermal atomic absorption spectrometry, 310 (1995) 181

Liquid-liquid extraction of iron(III) and gallium(III) with macrocyclic Schiff bases containing bisphenol A subunits, 319 (1996) 387

Determination of ultratrace metallic impurities in fluorocarbon polymers by electrothermal atomic absorption spectrometry after decomposition with a combustion system, 336 (1996) 151

Flow injection-assisted optical sensor for determination of iron(II) and iron(III) in natural water, 343 (1997) 191

Supercritical fluid chromatography and extraction of Fe(III) with hydroxamic acids, 346 (1997) 93

Determination of ultratrace iron in KH<sub>2</sub>PO<sub>4</sub> by derivative adsorption chronopotentiometry, 347 (1997) 257

Application of stripping voltammetry at a static mercury drop electrode for the determination of aluminium and iron in Portland cement, 353 (1997) 313

Spectrophotometric assay of aliphatic monohydroxamic acids and  $\alpha$ -,  $\beta$ -, and  $\gamma$ -aminohydroxamic acids in aqueous medium, 353 (1997) 359

Simultaneous flow injection determination of iron(III) and iron(III) with opto-electrochemical detection, 354 (1997) 43

Novel photochemical voltammetric method for the determination of traces of iron in tea, 354 (1997) 359

Long pathlength absorbance spectroscopy: trace analysis of Fe(II) using a 4.5 m liquid core waveguide, 357 (1997) 99

Determination of sub-nanomolar levels of iron in seawater using flow injection with chemiluminescence detection, 361 (1998) 189

Automatic determination of iron in geothermal fluids containing high dissolved sulfur-compounds using flow injection electrothermal atomic absorption spectrometry with an on-line microwave radiation precipitation—dissolution system, 366 (1998) 295

Dissolved iron at subnanomolar levels in the Southern Ocean as determined by ship-board analysis, 377 (1998) 113

Voltammetric characterization of a dissolved iron sulphide species by laboratory and field studies, 377 (1998) 193

### Iron and copper interferences

Flame atomic absorption spectrometric determination of cobalt in biological materials using a flow-injection system with on-line preconcentration by ion-pair adsorption, 316 (1995) 329

### Iron complexes

Determination of EDTA and DTPA as their Fe(III) complexes in pulp and paper mill process and waste waters by liquid chromatography, 303 (1995) 187

Voltammetric characterization of a dissolved iron sulphide species by laboratory and field studies, 377 (1998) 193

## Iron determination

Kinetic method for the determination of iron(II, III) by its catalytic effect on the oxidation of 3-methyl-2-benzothiazolinone hydrazone with hydrogen peroxide, 394 (1999) 55

## Iron in waters

Evaluation of natural computation techniques in the modelling and optimization of a sequential injection flow system for colorimetric iron(III) determination, 348 (1997) 143

### Iron ion

Determination of iron ion utilizing poly (p-vinylbenzoylacetone) modified micro-electrode, 369 (1998) 87

### Iron(II)

Iron(II) and iron(III) determination in sea water at the nanomolar level with selective on-line preconcentration and spectrophotometric determination, 308 (1995) 425

- Chromogenic reagents for iron(II): studies in the 1,2,4-triazine series, 322 (1996) 203
- Comparison of various peak evaluation techniques for limited and extended dynamic ranges in flow injection systems, 364 (1998)
- Simultaneous determination of traces of iron(II) and iron(III) using differential pulse anodic stripping voltammetry in a flow-through configuration on a glassy carbon electrode, 376 (1998) 325

## Iron(II) and total iron determination

Simultaneous flow-injection determination of iron(II) and total iron by micelle enhanced luminol chemiluminescence, 376 (1998) 247

### Iron(II/III) speciation

Simultaneous determination of iron(II) and iron(III) in water by capillary electrophoresis, 351 (1997) 41

## Iron(III)

- Iron(II) and iron(III) determination in sea water at the nanomolar level with selective on-line preconcentration and spectrophotometric determination, 308 (1995) 425
- Design and characterization of chemically modified electrodes with iron(III) porphyrinic-based polymers: Study of their reactivity toward nitrites and nitric oxide in aqueous solution, 341 (1997) 177
- Determination of iron(III) in pharmaceutical samples using dialysis in a sequential injection analysis system, 357 (1997) 141
- Use of a sequential injection technique to evaluate the effect of mixing chambers on zone penetration, 367 (1998) 111
- Flow-injection/standard subtraction method for the determination of iron(III) based on its catalytic effect and inhibition of EDTA, 374 (1998) 303
- Simultaneous determination of traces of iron(II) and iron(III) using differential pulse anodic stripping voltammetry in a flow-through configuration on a glassy carbon electrode, 376 (1998) 325

## Iron(III)-Chelex-100 resin

Determination of selenium speciation in river waters by adsorption on iron(III)-Chelex-100 resin and differential pulse cathodic stripping voltammetry, 321 (1996) 185

## Iron-tetrasulfonatophthalocyanine

Application of iron-tetrasulfonatophthalocyanine as a new mimetic peroxidase in the determination of hydrogen peroxide with p-hydroxyphenylpropionic acid as a substrate, 381 (1999) 175

## **IR-spectrometry**

Determination of alkylated polystyrene pour point depressant by preparative gel permeation chromatography, infrared spectrometry and nuclear magnetic resonance spectrometry, 373 (1998) 73

## Isatic acid

Electrochemical reduction of isatic acid at mercury electrodes in aqueous media, 354 (1997) 365

### Isatin

Electrochemical reduction of isatic acid at mercury electrodes in aqueous media, 354 (1997) 365

#### ISE

- Evaluation of the ion selective electrodes module in the DAX analyzers, 305 (1995) 304
- Lead-selective electrode by using benzyl disulphide as ionophore, 378 (1999) 145

## ISE potentiometry

Electrochemical study of proton ionisation, copper(II) complexation and surfactant properties of piperazine-N-N'-bis[2-hydroxypropanesulfonic acid] pH buffer. Comparison with other N-substituted aminosulfonic acids pH buffers, 369 (1998) 115

#### ISFET

- Glucose-sensitive ion-sensitive field-effect transistor-based biosensor with additional positively charged membrane Dynamic range extension and reduction of buffer concentration influence on the sensor response, 322 (1996) 77
- Automated pH-ISFET measurements under hydrostatic pressure for marine monitoring application, 356 (1997) 205
- Ascorbic acid determination with an ion-sensitive field effect transistor-based peroxidase biosensor, 359 (1998) 143

#### ISO

Detection and quantification limits: origins and historical overview, 391 (1999) 127

#### Isoalkanes

Selection of molecular descriptors used in quantitative structure—gas chromatographic retention relationships II. Isoalkanes and alkenes, 323 (1996) 15

### Isocitrate

Simultaneous quantitation of citrate and isocitrate in citrus juice by a flow-injection method based on the use of enzyme reactors, 321 (1996) 157

## Isodispersion point

Influence of different volume ratios on the isodispersion point in sequential injection analysis, 354 (1997) 59

## Isoelectric focusing

- Fine separation of protein isoforms with alternative development in two-dimensional electrophoresis, 365 (1998) 267
- Isoelectric focusing of proteins and peptides in gel slabs and in capillaries, 372 (1998) 1
- Isoelectric focusing of biotinidase and lipoamidase with the addition of non-ionic detergent, 372 (1998) 281
- Evaluation of commonly used electrophoretic methods for the analysis of proteins and peptides and their application to biotechnology, 383 (1999) 47
- Electrophoretic methods for the isolation and characterization of enzymes, 383 (1999) 109
- Blood group typing by electrophoresis based on isoelectric focusing, 383 (1999) 157
- Application of electrophoretic techniques to the diagnosis of disorders of lipoprotein metabolism. Examples at the levels of lipoproteins and apolipoproteins, 383 (1999) 169
- Heterogeneous humoral immune responses in cerebrospinal fluid arising from inflammatory diseases of the human central nervous

system. Detection of oligoclonal immunoglobulin bands after isoelectric focusing, 393 (1999) 83

#### Isoelectric point

Studies on a potentiometric urea biosensor based on an ammonia electrode and urease, immobilized on a γ-aluminum oxide matrix, 341 (1997) 161

Electrophoretic methods for the isolation and characterization of enzymes, 383 (1999) 109

#### Isoenzyme

Enzyme immunoassay by capillary electrophoresis with laser induced fluorescence detection, 399 (1999) 63

#### Isoforms

Isoform separation of metallothioneins by capillary zone electrophoresis with Tris-tricine buffer in the presence or absence of methanol, 372 (1998) 231

Quantitation of metallothionein isoforms in mouse liver on capillary zone electrophoresis, 372 (1998) 241

## Isolation of metalloporphyrins

Three analytical methods to isolate and characterize vanadium and nickel porphyrins from heavy crude oil, 395 (1999) 343

## Isolation/in situ concentration

On-line coupling of isolation/in situ concentration integrated with derivative synchronous spectrofluorimetry for the simultaneous determination of epinephrine and norepinephrine in urine, 317 (1995) 335

## Isomerization

Successfully controlled isomerization and pheophytinization of bacteriochlorophyll b by weak acid in the dark in vitro, 361 (1998) 285

Light-independent isomerization of bacteriochlorophyll g to chlorophyll a catalyzed by weak acid in vitro, 365 (1998) 199

### Isomers

MOLGEN<sup>+</sup>, a generator of connectivity isomers and stereoisomers for molecular structure elucidation, 314 (1995) 141

## Isoniazid

Solid-phase spectrophotometric determination of trace amounts of hydrazine at sub-ng ml<sup>-1</sup> level, 353 (1997) 115

## Isopropyl alcohol/water mixtures

Dissociation constants of several non-steroidal anti-inflammatory drugs in isopropyl alcohol/water mixtures, 350 (1997) 249

## Isoproturon

Development of anti-phenylurea antibody purification techniques for improved environmental applications, 376 (1998) 41

Functionalization of nitrocellulose membranes using ammonia plasma for the covalent attachment of antibodies for use in membrane-based immunoassays, 376 (1998) 133

### Isosaccharinic acid

Degradation of cellulosic materials under the alkaline conditions of a cementitious repository for low and intermediate level radioactive waste. Part I: Identification of degradation products, 398 (1999) 111

## Isosbestic points

Interactions of uranium and thorium with arsenazo III in an aqueous medium, 341 (1997) 263

## Isotachophoresis

Possibilities of simple steam distillation in combination with capillary isotachophoresis for the determination of chlorophenols in river and industrial waste waters, 302 (1995) 39

Application of electrophoretic techniques to the diagnosis of disorders of lipoprotein metabolism. Examples at the levels of lipoproteins and apolipoproteins, 383 (1999) 169

## Isothermal desorption measurements

Screening effects in surface infrared spectra of CO adsorbed on electrodes: application to isothermal desorption measurements, 397 (1999) 53

## 6-Isothiocyanatobenzo[g]phthalazine-1,4(2H,3H)-dione

6-Isothiocyanatobenzo [g]phthalazine-1,4(2H,3H)-dione as a highly sensitive chemiluminescence derivatization reagent for amines in liquid chromatography, 302 (1995) 61

## Isotope

Stable chlorine-isotope analysis of rock samples: New aspects of chlorine extraction, 362 (1998) 261

## Isotope dilution

Determination of germanium by isotope dilution-hydride generation inductively coupled plasma mass spectrometry, 332 (1996) 277

Determination of Cu, Zn, Cd and Pb in fish samples by slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry, 359 (1998) 205

## Isotope dilution technique

Simultaneous determination of neodymium and samarium in silicate rocks and minerals by isotope dilution inductively coupled plasma mass spectrometry: Results on twenty geochemical reference samples, 351 (1997) 325

## Isotope geoscience

Accurate determination of <sup>87</sup>Rb/<sup>86</sup>Sr and <sup>147</sup>Sm/<sup>144</sup>Nd ratios by inductively-coupled-plasma mass spectrometry in isotope geoscience: an alternative to isotope dilution analysis, 358 (1998) 227

## Isotope ratio mass spectrometry

Determination of the <sup>13</sup>C contents of organic acids and sugars in fruit juices: an inter-comparison study, 388 (1999) 137

### Isotope ratios

Precise determination of lithium isotopic composition by thermal ionization mass spectrometry in natural samples such as seawater, 370 (1998) 215

## Isotope-dilution mass spectrometry

Measuring SI-traceable nitrate concentrations in water by a primary method of measurement, isotope dilution mass spectrometry, 346 (1997) 3

## Isotopic analysis

A new method for extracting and purifying lead from difficult matrices for isotopic analysis, 332 (1996) 15

Sequential separation of light rare-earth elements, thorium and uranium by miniaturized extraction chromatography: Application to isotopic analyses of silicate rocks, 339 (1997) 79

### Isotopic reference materials

Measuring SI-traceable nitrate concentrations in water by a primary method of measurement, isotope dilution mass spectrometry, 346 (1997) 3

## Italian olive oil

Kohonen neural network as a pattern recognition method based on the weight interpretation, 334 (1996) 57

## Iterative target transformation factor analysis

Simultaneous polarographic analysis of pyrazine and its methyl derivatives by iterative target transformation factor analysis, 316 (1995) 233

#### **IUPAC**

Detection and quantification limits: origins and historical overview, 391 (1999) 127

## Ivory nut mannan

Monitoring of enzymatic hydrolysis of ivory nut mannan using online microdialysis sampling and anion-exchange chromatography with integrated pulsed electrochemical detection, 313 (1995) 15

# J

### Jackknife

Rapid estimation of rate constants using on-line SW-NIR and trilinear models, 376 (1998) 339

Application of curve resolution based methods to kinetic data, 396 (1999) 231

## Jaffé reaction

Routine assay of creatinine in newborn baby urine by spectrophotometric flow-injection analysis, 308 (1995) 446

### Jones reductor column

Indirect bioluminescent determination of europium(III) using flow injection analysis and on-line reduction, 339 (1997) 225

# K

## k Nearest neighbour

Regularised nearest neighbour classification method for pattern recognition of near infrared spectra, 349 (1997) 253

## Kalman filter

Parallel Kalman filters for peak purity analysis: extensions to nonideal detector response, 307 (1995) 459

Selection of calibration mixtures and wavelengths for different multivariate calibration methods, 313 (1995) 93

New method of simultaneous and non-destructive determination of human serum albumin and globulin, 316 (1995) 387

Feature selection using the Kalman filter for classification of multivariate data, 335 (1996) 11

Application of Kalman filtering to multivariate calibration and drift correction, 388 (1999) 315

#### Kamlet and Taft model

Application of the Kamlet and Taft model in solvent extraction chemistry of metals, 374 (1998) 137

## Kamlet-Taft parameters

Autoprotolysis in aqueous organic solvent mixtures. Water/alcohol binary systems, 335 (1996) 291

## Kamlet-Taft solvatochromic parameters

Solvent extraction of alkylphosphoric acid derivatives between water and immiscible organic solvents, 350 (1997) 197

## 32kDa molecular antigen of schistosoma japonicum

A direct immunoassay for schistosoma japonium antibody (SjAb) in serum by piezoelectric body acoustic wave sensor, 398 (1999)

## Keggin type polyanion

Electrocatalytic reduction of nitrite at a glassy carbon electrode surface modified with palladium(II)-substituted Keggin type heteropolytungstate, 388 (1999) 103

## Kerosene

Multivariate calibrations in Fourier transform infrared spectrometry for prediction of kerosene properties, 317 (1995) 95

Solvent extraction of yttrium from chloride media by di(2-ethylhexyl)phosphoric acid in kerosene. Speciation studies and gel formation, 327 (1996) 267

### Ketoprofer

Direct determination of diastereomeric <sup>13</sup>C-labeled ketoprofen glucuronides in human urine by nuclear magnetic resonance spectroscopy, 334 (1996) 67

## Ketoprofen determination

On-line solvent recycling: a tool for the development of clean analytical chemistry in flow injection Fourier transform infrared spectrometry. Determination of ketoprofen, 361 (1998) 253

## Khellin

Voltammetric study of khellin at a DNA-coated carbon paste electrode, 386 (1999) 63

## KH<sub>2</sub>PO<sub>4</sub>

Determination of ultratrace iron in KH<sub>2</sub>PO<sub>4</sub> by derivative adsorption chronopotentiometry, 347 (1997) 257

## Kinetic analysis

- Chemometric study of differential kinetic analysis by the method of proportional equations, 322 (1996) 195
- Flow-injection stopped-flow spectrofluorimetric kinetic determination of paracetamol based on its oxidation reaction by hexacyanoferrate(III), 333 (1996) 59
- Flow-injection and stopped-flow completely continuous flow spectrophotometric determinations of aniline and cyclohexylamine, 396 (1999) 151
- Simultaneous enzymatic spectrophotometric determination of ethanol and methanol by use of artificial neural networks for calibration, 398 (1999) 83
- Determination of glucose and fructose in mixtures by a kinetic method with chemiluminescence detection, 398 (1999) 191

### Kinetic based analytical methods

Kinetics based determination of trace amounts of silver at the excess of copper ions, 394 (1999) 185

#### Kinetic determination

Simultaneous determination of cobalt(II) and Ni(II) in water and soil samples with sequential injection analysis, 366 (1998) 177

#### Kinetic dissociation

Comparison of two kinetic approaches for copper speciation using ion-exchange columns and ion-exchange modified carbon paste electrodes, 382 (1999) 179

#### Kinetic expression

Hydrazines probe of interaction of horseradish peroxidase with cryo-hydrogel, 353 (1997) 45

## Kinetic hindering

Ultramicroelectrodes in kinetic investigations supported by simulation. A review with some additional examples, 305 (1995) 96

### Kinetic measurement

Reaction rate method for determination of nitrite by applying a stopped-flow technique, 376 (1998) 331

## Kinetic methods

- Proton-transfer kinetics of photoexcited 2-hydroxybiphenyl in aqueous methanol solutions, 303 (1995) 25
- Individual and joint stopped flow kinetic spectrofluorimetric determination of neomycin and tyrothricin, 303 (1995) 31
- Stopped flow kinetic determination of nalidixic acid and norfloxacin based on lanthanide-sensitized fluorescence, 303 (1995) 39
- Partial least-squares regression for multicomponent kinetic determinations in linear and non-linear systems, 303 (1995) 309
- Flow reversal and flow recycle air-segmented flow injection for simultaneous determination of a binary mixture, 304 (1995) 333
- Kinetic measurements of a surface confined redox reaction, 305 (1995) 248
- The simultaneous speciation of aluminium and iron in a flowinjection system, 306 (1995) 5
- Thermodynamics and kinetics of adsorption and electrocatalysis of NADH oxidation with a self-assembling quinone derivative, 309 (1995) 79
- Determination of enzyme substrates with an extended range of linearity, 309 (1995) 251

- Flow-injection stopped-flow spectrofluorimetric kinetic determination of total ascorbic acid based on an enzyme-linked coupled reaction, 309 (1995) 271
- A stopped-flow/continuous-flow method for kinetic determinations, 309 (1995) 277
- Development and testing of a new computerized method for multicomponent kinetic determinations based on multiwavelength spectrophotometric detection, 310 (1995) 307
- Multicommutation in flow analysis. Part 3. Spectrophotometric kinetic determination of creatinine in urine exploiting a novel zone sampling approach, 310 (1995) 447
- Use of a stopped-flow/T-format spectrofluorimeter for simultaneous kinetic analyses, 310 (1995) 453
- Fluorimetric investigation of reactions between ozone and excited state aromatic compounds on silica gel, 319 (1996) 369
- Kinetic behaviour of the malonaldehyde-thiobarbituric acid reaction. Kinetic-fluorimetric determination of malonaldehyde in human serum, 320 (1996) 125
- A comparative study of several chemometric methods applied to the treatment of two-way kinetic-spectral data for mixture resolution, 321 (1996) 75
- Enhanced chemiluminescence kinetic ELISA of dichlorprop methyl ester, 321 (1996) 213
- Photokinetic study of the Rose Bengal B-tin(II) reaction. Determination of tin in metals, 325 (1996) 81
- Selective kinetic method based on detecting the intermediate product in successive reactions, 325 (1996) 105
- Systematic comparison of data-processing options for kinetic-based, single-component determinations of noncatalysts: Effects of random noise, 326 (1996) 95
- Kinetic determination of salicylic acid, diflunisal and their mixture based on lanthanide-sensitized luminescence, 329 (1996)
- Highly rugged kinetic method for the enzymatic determination of DNA in agarose gel with array detection using a charge coupled device, 329 (1996) 285
- On-line monitoring of trace amounts of copper(II) in steam condensate and boiler feed-water by flow injection analysis based on its catalytic effect on the oxidation of hydroquinone by hydrogen peroxide, 331 (1996) 257
- Kinetic catalytic analysis: Extended theory of continuous addition of catalyst to a reference solution for nonequal reference and sample initial signals, 335 (1996) 185
- Hexadecylpyridinium chloride micelles for the simultaneous kinetic determination of cysteine and cystine by their induction of the iodine-azide reaction, 337 (1997) 341
- Simultaneous kinetic determination of butylated hydroxyanisole and propyl gallate by coupling stopped-flow mixing technique and diode-array detection, 354 (1997) 173
- Kinetic determination of bromadiolone based on lanthanide-sensitized luminescence, 355 (1997) 145
- Kinetic-catalytic-spectrophotometric determination of low concentrations of molybdenum in white wines, 390 (1999) 255

## Kinetic stability

Solvent extraction of Pb(II) from acid medium with zinc hexamamethylenedithiocarbamate followed by back-extraction and subsequent determination by FAAS, 386 (1999) 281

## Kinetic studies

Kinetic and mechanistic study of the chlorpromazine-hydrogen peroxide reaction for the catalytic spectrophotometric determination of iodide. 320 (1996) 217

## Kinetic wavelength-pair method

Simultaneous spectrophotometric determination of chlorpromazine, perphenazine and acetopromazine by use of the kinetic wavelength pair-method, 349 (1997) 33

#### Kinetics

Simultaneous spectrophotometric determination of chlorpromazine, perphenazine and acetopromazine by use of the kinetic wavelength pair-method, 349 (1997) 33

Flow microcalorimeter auto-calibration for the analysis of immobilized enzyme kinetics, 355 (1997) 63

Kinetic and thermodynamic considerations in the determination of aluminium using pyrocatechol violet: implications for the use of 'kinetic-based' determinations of metal ions in natural systems, 359 (1998) 329

Sulfosuccinimidyl 4-(N-maleimidomethyl)-1-cyclohexane carboxylate as a bifunctional immobilization agent. Optimization of the coupling conditions, 361 (1998) 33

Diphenylurea hapten sensing with a monoclonal antibody and its Fab fragment: Kinetic and thermodynamic investigations, 362 (1998) 101

Kinetic study of methionine oxidation in human parathyroid hormone, 365 (1998) 301

Kinetics of the electrochemical bromination of some unsaturated fatty acids by the rotating ring-disc electrode technique, 376 (1998) 357

Kinetic determination of ansamicins in pharmaceutical formulations and human urine. Manual and semiautomatic (stopped-flow) procedures, 376 (1998) 365

Methods and issues in microdialysis calibration, 379 (1999) 337 Scanning electrochemical microscopy: beyond the solid/liquid

interface, 385 (1999) 223

Development of a simple extraction procedure using ligand competition for biogeochemically available metals of estuarine suspended particulate matter, 392 (1999) 3

Application of curve resolution based methods to kinetic data, 396 (1999) 231

## Kinetics of iron-catalyzed reaction

Kinetic method for the determination of iron(II, III) by its catalytic effect on the oxidation of 3-methyl-2-benzothiazolinone hydrazone with hydrogen peroxide, 394 (1999) 55

### Kinetin

Studies of the influence of the surfactant sodium dodecyl sulfate on the fluorescence properties of kinetin, 329 (1996) 161

## Kjeldahl nitrogen

Flow-injection analysis of Kjeldahl nitrogen in milk and dairy products by potentiometric detection, 385 (1999) 437

## Kjeldahl samples

Calibration methods for determination of ammonium and excess acid in Kjeldahl digests by flow injection analysis, 343 (1997) 183

## K-matrix

Chemometrics: the issues of measurement and modelling, 400 (1999) 399

## K-nearest neighbour method

Classification of pyrolysis mass spectra by fuzzy multivariate rule induction-comparison with regression, K-nearest neighbour, neural and decision-tree methods, 348 (1997) 389

#### KNN method

Application of the pattern-recognition method for modelling expert estimation of chromatogram quality, 369 (1998) 47

#### **Knotted reactor**

Selective flow-injection quantification of ultra-trace amounts of Cr(VI) via on-line complexation and preconcentration with APDC followed by determination by electrothermal atomic absorption spectrometry, 366 (1998) 163

#### Knowledge base generation

Knowledge base generation for the GCdiagnosis system, 324 (1996) 85

#### Knowledge based system

Knowledge-based system for the provision of an analytical strategy for simultaneous determination of metals by differential-pulse polarography, 316 (1995) 47

A knowledge based advisory system for acid/base titrations in nonaqueous solvents, 332 (1996) 201

## Kohonen neural network

Kohonen neural network as a pattern recognition method based on the weight interpretation, 334 (1996) 57

Classification of single particles by neural networks based on the computer-controlled scanning electron microscopy data, 348 (1997) 375

General type of a uniform and reversible representation of chemical structures, 348 (1997) 409

## Kojic acid

Application of a sensitive catechol detector for determination of tyrosinase inhibitors, 362 (1998) 81

## Kolmogorov-Smirnov statistics

Assessment of homogeneity of candidate reference material at the nanogram level and investigation on representativeness of single particle analysis using electron probe X-ray microanalysis, 389 (1999) 151

# L

## L- and D-histidine

Continuous-flow discrimination of L- and D-histidine, 375 (1998) 99

## L(-) malic acid

Enzymatic determination of L(+) lactic and L(-) malic acids in wines by flow-injection spectrophotometry, 366 (1998) 187

## L(+) lactic acid

Enzymatic determination of L(+) lactic and L(-) malic acids in wines by flow-injection spectrophotometry, 366 (1998) 187

### Labelled glucose oxidase

Fluorimetric-enzymatic determination of glucose based on labelled glucose oxidase, 368 (1998) 97

#### Labelling

The validation of methods based on polymerase chain reaction for the detection of genetically modified organisms in food, 393 (1999) 177

#### Labels

Determination of copper at ng ml<sup>-1</sup>-levels based on quenching of the europium chelate luminescence, 364 (1998) 125

Electrochemiluminescent labels for applications in fully aqueous solutions at oxide-covered aluminium electrodes, 386 (1999) 1

## Labile and non-labile metal complexes

A potentiometric and differential pulse polarographic study of Cd<sup>II</sup> with 1-hydroxyethylenediphosphonic acid, 379 (1999) 217

## Labile complexes

Multivariate curve resolution analysis of voltammetric data obtained at different time windows: study of the system Cd<sup>2+</sup>-nitrilotriacetic acid, 371 (1998) 23

A differential pulse polarographic study of bismuth<sup>III</sup> complexes with macrocyclic ligands 1,4,7,10-tetraazacyclododecane and 1,4,7,10-tetrakis (2-hydroxypropyl)-1,4,7,10-tetraazacyclododecane. An out-of-cell determination of stability constants of polarographically active and inactive bismuth complexes at fixed ligand to metal ratio and various pH values, 372 (1998) 323

### Labile iron

Speciation of iron in river and tap waters by catalytic spectrophotometry using oxidation of o-phenylenediamine with hydrogen peroxide, 388 (1999) 35

### Labile species

A polarographic method of speciation for labile metal-ligand systems based on mass-balance equations. A differential pulse polarographic study at fixed ligand to metal ratio and varied pH, 336 (1996) 23

### Lability

Influence of the ratio copper(II) to ligand concentrations and the nature of entering and leaving ligands on the lability of copper(II) complexes, 330 (1996) 273

## Laboratory information management systems (LIMS)

The role of laboratory information management systems (LIMS) in analytical method validation, 391 (1999) 149

### Laccase

Determination of p-aminophenol and catecholamines at picomolar concentrations based on recycling enzyme amplification, 304 (1995) 25

Flow-injection analysis of phenols at a graphite electrode modified with co-immobilised laccase and tyrosinase, 308 (1995) 137 Flow-injection stopped-flow spectrofluorimetric kinetic determination of total ascorbic acid based on an enzyme-linked coupled reaction, 309 (1995) 271

An enzymatic amplification cycle for high sensitive immunoassay, 328 (1996) 27

## Laccase activity

Organic solvent enhanced spectrofluorimetric method for determination of laccase activity, 374 (1998) 99

## Laccase activity assay

Micelle enhanced spectrofluorimetric assay for laccase activity by a flow-injection stopped-flow technique, 318 (1995) 63

#### β-lactar

Receptor binding protein amperometric affinity sensor for rapid  $\beta$ -lactam quantification in milk, 398 (1999) 13

## β-lactam antibiotics

Chemiluminescence of β-lactam antibiotics following oxidation by potassium superoxide, 338 (1997) 1

Chemiluminescence of β-lactam antibiotics based on the luminol reaction, 389 (1999) 89

## **β-Lactamase**

 $\beta$ -Lactamase label-based potentiometric biosensor for  $\alpha$ -2 interferon detection, 390 (1999) 73

#### Lactate

Highly selective biosensing of lactate at lactate oxidase containing rhodium-dispersed carbon paste electrodes, 304 (1995) 41

Transcutaneous lactate monitoring based on a micro-planar amperometric biosensor, 312 (1995) 323

Design and development of a miniaturised total chemical analysis system for on-line lactate and glucose monitoring in biological samples, 346 (1997) 341

Continuous measurement of lactate in microdialysate, 351 (1997) 127

A flow-injection (FI) mediated biosensor for on-line monitoring of lactate in mammalian cell culture, 351 (1997) 159

Luminol electrochemiluminescence-based fibre optic biosensors for flow injection analysis of glucose and lactate in natural samples, 381 (1999) 1

Estimation of lactate in meat extracts by screen-printed sensors, 386 (1999) 7

## Lactate dehydrogenase

A reagentless, disposable biosensor for lactic acid based on a screenprinted carbon electrode containing Meldola's Blue and coated with lactate dehydrogenase, NAD\* and cellulose acetate, 304 (1995) 17

## Lactate enzyme electrode

Blood compatibility and extended linearity of lactate enzyme electrode using poly(vinyl chloride) outer membranes, 353 (1997) 281

### Lactate oxidase

A flow-injection (FI) mediated biosensor for on-line monitoring of lactate in mammalian cell culture, 351 (1997) 159

## Lactic acid

A reagentless, disposable biosensor for lactic acid based on a screenprinted carbon electrode containing Meldola's Blue and coated with lactate dehydrogenase, NAD\* and cellulose acetate, 304 (1995) 17

Simultaneous monitoring of glucose, lactic acid and penicillin by sequential injection analysis, 312 (1995) 149

A bienzyme-poly-(o-phenylenediamine)-modified carbon paste electrode for the amperometric detection of \( \ell \)-lactate, 346 (1997) 165

Preparation and properties of enzyme sensors for L-lactic and D-lactic acids in optical isomers, 368 (1998) 91

Slow ultrafiltration for continuous in vivo sampling: application for glucose and lactate in man, 379 (1999) 327

#### Lactose

Reagentless amperometric biosensors highly sensitive to hydrogen peroxide, glucose and lactose based on N-methyl phenazine methosulfate incorporated in a Nafion film as an electron transfer mediator between horseradish peroxidase and an electrode, 344 (1997) 187

Amperometric biosensor sensitive to glucose and lactose based on co-immobilization of ferrocene, glucose oxidase, β-galactosidase and mutarotase in β-cyclodextrin polymer, 358 (1998) 137

On-line monitoring of galactoside conjugates and glycerol by flow injection analysis, 373 (1998) 57

## Lactose analysis

Hybrid biosensors to estimate lactose in milk, 349 (1997) 153

## Lactulose biosensor system

Automated determination of lactulose in milk using an enzyme reactor and flow analysis with integrated dialysis, 324 (1996) 37

### LA-ICP-MS

Preparation of airborne particulate standards on PTFE-membrane filter for laser ablation inductively coupled plasma mass spectrometry, 368 (1998) 11

### Lake and river sediment

Determination of bismuth in cod muscle, lake and river sediment by flow injection on-line sorption preconcentration in a knotted reactor coupled with electrothermal atomic absorption spectrometry, 354 (1997) 7

## Lake eutrophication

A factor analysis approach to the study of the eutrophication of a shallow, temperate lake (San Daniele, North Eastern Italy), 306 (1995) 99

### Lake water

Spectrophotometric determination of uranium in natural water with the new chromogenic reagent p-carboxychlorophosphonazo, 314 (1995) 95

Determination of trace amounts of molybdenum in water samples by graphite furnace atomic absorption spectrometry with multiple injections and cool down step, 353 (1997) 85

### Lakes

Voltammetric characterization of a dissolved iron sulphide species by laboratory and field studies, 377 (1998) 193

#### L-Alanine

Selective flow injection procedures for the determination of nitrogen containing analytes by gasdialytic-fluorimetric detection of enzymatically generated ammonia, 325 (1996) 93

Amperometric biosensors for L-alanine and pyruvate assays in biological fluids, 355 (1997) 235

## Laminar tube flow

Concentration non-uniformities and averages in flow-through spectrophotometric measurements, 363 (1998) 171

## l-Amino acid oxidase

Immobilisation of enzyme throughout a polytyramine matrix: a versatile procedure for fabricating biosensors, 394 (1999) 211

## l-Amino oxidase

Development of enzyme-cartridge flow-injection analysis for industrial process monitoring. Part III. Application for monitoring of recombinant animal cell cultivations, 315 (1995) 153

Development of enzyme-cartridge flow-injection analysis for industrial process monitoring. Part III. Application for monitoring of recombinant animal cell cultivations, 315 (1995) 153

## Lane-Eynon method

Determination of reducing sugars by flow injection gravimetry, 366 (1998) 119

## Langmuir-Blodgett films

Pattern recognition approach to the study of the interactions between metalloporphyrin Langmuir—Blodgett films and volatile organic compounds, 384 (1999) 249

Hydrogen peroxide - sensitive enzyme sensor based on phthalocyanine thin film, 391 (1999) 289

## Langmuir-Blodgett method

Modified electrode surfaces for catalytic reduction of carbon dioxide, 396 (1999) 1

### Lanolir

Development of a novel supercritical fluid extraction procedure for lanolin extraction from raw wool, 381 (1999) 39

## Lanthanide and actinide trace elements

Microwave dissolution of plant tissue and the subsequent determination of trace lanthanide and actinide elements by inductively coupled plasma-mass spectrometry, 322 (1996) 11

## Lanthanide chelates

Electrochemiluminescent labels for applications in fully aqueous solutions at oxide-covered aluminium electrodes, 386 (1999) 1

Some spectroscopic and transport properties of a rare-earth chelate, Tb-PCTMP, 397 (1999) 267

## Lanthanide luminescence

Detection of higher-ordered DNA sequence by using terbium(III) luminescence, 365 (1998) 27

## Lanthanide pattern

Determination of trace elements in sea weed samples by inductively coupled plasma mass spectrometry, 355 (1997) 121

Determination of trace elements in shellfish tissue samples by inductively coupled plasma mass spectrometry, 382 (1999) 215

## Lanthanide sensitized luminescence

Synchronous scanning second derivative spectrofluorimetry for the simultaneous determination of diflunisal and salicylic acid added to serum and urine as ternary complexes with terbium and EDTA, 320 (1996) 107

#### Lanthanide separation

Chelation ion chromatography as a technique for trace elemental analysis in complex matrix samples, 337 (1997) 173

#### Lanthanides

Spectrophotometric study of arsenazo III and its interactions with lanthanides, 314 (1995) 219

Selective separation and determination of scandium from yttrium and lanthanides in red mud by a combined ion exchange/solvent extraction method, 315 (1995) 231

Recovery of lanthanides and yttrium from red mud by selective leaching, 319 (1996) 249

pH dependence of the reactions of arsenazo III with the lanthanides, 339 (1997) 271

Interaction of anions with arsenazo III-lanthanide (III) complexes, 345 (1997) 227

Determination of lanthanides by ion chromatography. Separation and retention mechanism, 353 (1997) 239

Selective separation of lanthanides by supported liquid membranes containing Cyanex 925 as a carrier, 387 (1999) 77

Nuclide analysis of an irradiated tantalum target of a spallation neutron source using high performance ion chromatography and inductively coupled plasma mass spectrometry, 387 (1999) 145

## Lanthanide-sensitized luminescence

Stopped flow kinetic determination of nalidixic acid and norfloxacin based on lanthanide-sensitized fluorescence, 303 (1995) 39

Kinetic determination of salicylic acid, diflunisal and their mixture based on lanthanide-sensitized luminescence, 329 (1996) 135

Kinetic determination of bromadiolone based on lanthanide-sensitized luminescence, 355 (1997) 145

### Lanthanum

Determination of uranium, thorium and lanthanum in mixed solutions using simultaneous spectrophotometry, 329 (1996) 173

Studies on monoxide flame emission spectrometry of rare-earth elements. Part 2. Determination of yttrium in rare-earth concentrates by the dual wavelength method, 344 (1997) 291

Studies on monoxide emission spectrometry of rare-earth elements.
IV. Simultaneous determination of Sm, Eu, Gd in Sm-Eu-Gd concentrates by the dual wavelength method, 350 (1997) 365

## Lanthanum complexes

Potentiometric study of the equilibria between triethylenetetraminehexaacetic acid and H(I), Mn(II), La(III) and Ga(III) in aqueous solution, 367 (1998) 261

## Lanthanum in urine samples

On-line preconcentration system for lanthanum determination in urine using FI-ICP-AES, 366 (1998) 201

#### Lanthanum(III)

Quercetin-La(III) complex for the fluorimetric determination of nucleic acids, 381 (1999) 17

#### Laponite

Improvement of the analytical characteristics of an enzyme electrode for free and total cholesterol via laponite clay additives, 317 (1995) 275

## Laponite gels

Optimization of an inorganic/bio-organic matrix for the development of new glucose biosensor membranes, 364 (1998) 165

#### LAPS

Immunoenzymatic application of a redox potential biosensor, 335 (1996) 127

#### Larag volume injection

Microwave-accelerated speciation analysis for butylin compounds in sediments and biomaterials by large volume injection capillary gas chromatography quartz furnace atomic absorption spectrometry, 332 (1996) 225

## Large mass change

Sulfate ion sensing based on a quartz-crystal microbalance immobilized with barium sulfate crystals grown on a self-assembled monolayer of phosphorylated 11-mercapto-1-undecanol, 375 (1998) 155

## Large volume injections

Electron-capture detection in reversed-phase liquid chromatography using packed-capillary columns, 304 (1995) 47

Trace determination of triazine herbicides by means of coupledcolumn liquid chromatography and large volume injection, 338 (1997) 223

Microextraction procedures combined with large volume injection in capillary gas chromatography for the determination of pesticide residues in environmental aqueous samples, 356 (1997) 125

## L-Arginine

Continuous kinetic method for the quantitative resolution of structural isomers of arginine and ornithine, 315 (1995) 145

Bienzymatic potentiometric electrodes for creatine and L-arginine determination, 333 (1996) 215

## L-Ascorbic acid

Highly sensitive electrochemical determination of Escherichia coli density using tyrosinase-based chemically amplified biosensor, 357 (1997) 51

Ascorbic acid determination with an ion-sensitive field effect transistor-based peroxidase biosensor, 359 (1998) 143

Flow injection spectrophotometric determination of L-ascorbic acid in pharmaceutical formulations with on-line solid-phase reactor containing copper (II) phosphate, 366 (1998) 55

## L-ascorbic acid determination

Use of column with modified silica for interfering retention in a FIA spectrophotometric method for direct determination of vitamin C in medicine, 366 (1998) 11

Potentiometric biosensor for L-ascorbic acid based on ascorbate oxidase of natural source immobilized on ethylene-vinylacetate membrane, 385 (1999) 3

#### Laser ablation

Analysis of silicon nitride bearings with laser ablation inductively coupled plasma mass spectrometry, 355 (1997) 113

Use of laser ablation inductively coupled plasma mass spectrometry to provide element versus time profiles in teeth, 395 (1999) 179

## Laser ablation inductively coupled plasma mass spectrometry

Determination of chromium in airborne particulate matter by high resolution and laser ablation inductively coupled plasma mass spectrometry, 389 (1999) 257

## Laser diode

Determination of dissolved silica in waters by a flow-based analysis system composed of a laser diode and a thin long flow-through cell, 318 (1996) 195

## Laser enhanced ionization

The determination of lead in whole blood by laser enhanced ionization using a combination of electrothermal vaporizer and flame, 333 (1996) 187

#### Laser excited atomic fluorescence

On-line and in-situ detection of lead aerosols by plasma-spectroscopy and laser-excited atomic fluorescence spectroscopy, 346 (1997) 37

### Laser induced fluorescence

Europium complexes investigations in natural waters by timeresolved laser-induced fluorescence, 396 (1999) 253

## Laser methods

Forward-scattering degenerate four-wave mixing as a potential laser-based absorption detection method in liquid separation systems: Coupling to conventional-size liquid chromatography, 330 (1996) 189

Application of pulsed laser methods to in situ probing of highway originated pollutants, 343 (1997) 93

## Laser photolysis

Detection of polychlorinated biphenyls by photoactivated fluorescence and by sensitized laser photolysis, 319 (1996) 221

## Laser spectroscopy

Evaluation of silver substrates for surface-enhanced Raman detection of drugs banned in sport practices, 376 (1998) 255 light on the next millennium, 400 (1999) 281

## Laser techniques

Determination of oxacyanine dyes and rhodamine by a second harmonic generation technique using a femtosecond laser, 330 (1996) 117

## Laser-excited atomic fluorescence spectrometry

Electrothermal atomization laser-excited atomic fluorescence spectrometry for direct analysis of germanium in water and blood samples, 350 (1997) 231

### Laser-induced fluorescence

Column liquid chromatography with diode laser-induced fluorescence detection of carboxylic acids after pre-column derivatisation, 315 (1995) 209

Direct and fast uranium determination in zirconium by timeresolved laser-induced fluorescence spectrometry, 321 (1996) 121

Demonstration of a separations-based fiberoptic sensor for bioanalysis, 399 (1999) 201

### Laser-induced plasma

On-line and in-situ detection of lead aerosols by plasma-spectroscopy and laser-excited atomic fluorescence spectroscopy, 346 (1997) 37

## Laser-induced plasma spectroscopy (LIPS)

Laser-induced plasma spectroscopy (LIPS): a versatile tool for monitoring heavy metal aerosols, 392 (1999) 47

## Laser-induced thermal desorption

Laser-induced thermal desorption with Fourier transform mass spectrometry for the time resolved analysis of catalyst and biomedical implant model surface molecular composition, 307 (1995) 321

#### Lasers

Analysis of polynuclear aromatic compounds using laser-excited synchronous fluorescence, 303 (1995) 247

A cyanine fluorophore with a hydrazide functionality as labelling reagent for aldehydes in liquid chromatography, 311 (1995) 47

Prediction of the calibration curves for the analysis of high absorbances using mode-mismatched dual-beam thermal lens spectrometry with chopped continuous wave laser excitation, 322 (1996) 117

Diode laser induced near infra-red fluorescence detection for highperformance liquid chromatography analysis of indocyanine green in plasma, 342 (1997) 145

Near field thermal lens detector for gradient elution liquid chromatography, 353 (1997) 207

## Latent fingerprints

Base-activated latent fingerprints fumed with a cyanoacrylate monomer. A quantitative study using Fourier-transform infra-red spectroscopy, 362 (1998) 171

## Latex sphere

Adaptation of pulsed-field gel electrophoresis for the improved fractionation of spheres, 372 (1998) 299

## Laundry detergents

Peroxide analysis in laundry detergents using liquid chromatography, 363 (1998) 97

### Lauric acid

Determination of phthalate-induced rat liver cytochrome P-450 IVA1 by a fluorimetric enzymatic assay and by chemiluminescence detection on Western blots, 303 (1995) 99

## Lauryl sulphate

Lauryl sulphate as counter ion for construction of ion-selective membrane electrodes for moclobemide and disopyramide, 350 (1997) 105

## Laurylamine acetate

Identification of laurylamine acetate in water gel explosives by electrospray/mass spectrometry, 349 (1997) 333

Systematic approach to the identification of water-gel explosives, 375 (1998) 255

## L-bifunctional protein

Separation of stereoisomers of C<sub>27</sub>-bile acid CoA esters by liquid chromatography and its application to the study of the stereospecificities of D- and L-bifunctional proteins in bile acid biosynthesis, 365 (1998) 249

#### LC

Direct observation of sample trapping process onto internal-surface reversed-phase pre-column, 365 (1998) 115

Simultaneous determination of serum and urinary hydroxyproline and proline by liquid chromatography using two fluorescent labeling reagents, 365 (1998) 219

Separation of stereoisomers of C<sub>27</sub>-bile acid CoA esters by liquid chromatography and its application to the study of the stereospecificities of D- and L-bifunctional proteins in bile acid biosynthesis, 365 (1998) 249

Anthocyanic pigment determination in red fruit juices, concentrated juices and syrups using liquid chromatography, 382 (1999) 39

A derivatization method for the determination of amines in alkaline medium, 395 (1999) 351

### LC-FD

Comparison of different drying, extraction and detection techniques for the determination of priority polycyclic aromatic hydrocarbons in background contaminated soil samples, 383 (1999) 263

## LC-postcolumn photoirradiation

Fluorometric determination of N<sup>1</sup>-methylnicotinamide in human urine and serum by liquid chromatography postcolumn photo-irradiation with a mobile phase containing 18-crown-6, 363 (1998) 133

## L-cysteine

Fast automated determination of toxicologically relevant arsenic in urine by flow injection-hydride generation atomic absorption spectrometry, 349 (1997) 313

Off-line separation and determination of inorganic arsenic species in natural water by high resolution inductively coupled plasma mass spectrometry with hydride generation combined with reaction of arsenic(V) and L-cysteine, 375 (1998) 167

Constant current cathodic stripping potentiometric determination of arsenic on a mercury film electrode in the presence of copper ions, 381 (1999) 207

L-Cysteine determination using a polyphenol oxidase-based inhibition flow injection procedure, 399 (1999) 287

### I DA

Feature reduction by Fourier transform in pattern recognition of NIR data, 331 (1996) 75

## Leaching

Speciation of arsenobetaine in marine organisms using a selective leaching/digestion procedure and hydride generation atomic absorption spectrometry, 337 (1997) 323

## Leaching kinetics

An approach for monitoring subcritical water extraction kinetics of fluorescent analytes, 342 (1997) 215

#### Lead

In-flow speciation of copper, zinc, lead and cadmium in fresh waters by square wave anodic stripping voltammetry Part II. Optimization of measurement step, 305 (1995) 183

Determination of sub-nanomolar concentrations of lead in sea water by adsorptive stripping voltammetry with xylenol orange, 309 (1995) 95

Voltammetric determination of lead with a chemically modified carbon paste electrode with diphenylthiocarbazone, 309 (1995) 117

Comparison of plumbane and tetraethyllead for the determination of lead by inductively coupled plasma atomic emission spectrometry, 309 (1995) 369

Voltammetry of Pb(II), Cd(II) and Zn(II) ions in the presence of the sulphated polysaccharide λ-carrageenan, 310 (1995) 121

Simultaneous multielement determination in complex matrices using frequency-modulated electrothermal atomic absorption spectrometry, 310 (1995) 181

Determination of lead in illicit drugs by electrothermal atomic absorption spectrometry using palladium as chemical modifier, 310 (1995) 355

Determination of trace metals (Cd, Pb) in fish by electrothermal atomic absorption spectrometry after microwave digestion, 311 (1995) 135

Direct determination of trace concentrations of lead in fresh water samples by adsorptive cathodic stripping voltammetry of a lead-Calcein Blue complex, 316 (1995) 363

Rapid determination of copper, lead and cadmium in unpurged seawater by adsorptive stripping voltammetry, 320 (1996) 19

Anodic stripping voltammetry of trace metals by batch injection analysis, 322 (1996) 151

Slurry sampling for the determination of lead, cadmium and thallium in soils and sediments by electrothermal atomic absorption spectrometry with fast-heating programs, 328 (1996) 19

Mathematical modelling of potentiometric stripping analysis in mechanically mixed solutions, 329 (1996) 1

Determination of copper, lead and cadmium in whole blood by stripping voltammetry with the use of graphite electrodes, 330 (1996) 175

Assessment of the extent of lead redistribution during sequential extraction by two different methods, 332 (1996) 1

A new method for extracting and purifying lead from difficult matrices for isotopic analysis, 332 (1996) 15

The determination of lead in whole blood by laser enhanced ionization using a combination of electrothermal vaporizer and flame, 333 (1996) 187

Determination of lead and cadmium in human hair by atomic absorption spectrometric procedures after solid phase extraction, 337 (1997) 329

- Simultaneous flow injection analysis of cadmium and lead with differential pulse voltammetric detection, 340 (1997) 149
- Pyrocatechol Violet immobilized Amberlite XAD-2: synthesis and metal-ion uptake properties suitable for analytical applications, 340 (1997) 285
- Substituted catechols as complexing agents for the determination of bismuth, lead, copper and cadmium by adsorptive stripping voltammetry, 344 (1997) 87
- Complex formation of 2-(5-nitro-2-pyridylazo)-5-(N-propyl-N-sulfo-propylamino)phenol with lead, cadmium and manganese for their sensitive spectrophotometric detection in flow injection and ion chromatography systems, 345 (1997) 139
- On-line and in-situ detection of lead aerosols by plasma-spectroscopy and laser-excited atomic fluorescence spectroscopy, 346 (1997) 37
- Inhibition of Pb redistribution by two complexing agents (cryptand and NTA) during a sequential extraction of soil models, 347 (1997) 313
- Disposable thick film modified graphite electrodes for stripping voltammetry, 349 (1997) 85
- Rapid and simultaneous analysis of trace metals (Cu, Pb and Cd) in seawater by potentiometric stripping analysis, 351 (1997) 83
- Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165
- Speciation of Cu, Pb, Cd and Hg in waters of the Oporto coast in Portugal, using pre-concentration in a Chelamine resin column, 353 (1997) 189
- On-line preconcentration of lead and cadmium for flame atomic absorption spectrometry using a flow-through electrochemical microcell, 357 (1997) 133
- Determination of Cu, Zn, Cd and Pb in fish samples by slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry, 359 (1998) 205
- Electrothermal atomic absorption spectrometric determination of lead in calcium drug samples by direct atomization technique, 362 (1998) 279
- Liquid-liquid extraction of cationic metal complexes with p-nonylphenol solvent: Application to crown and thiacrown ether complexes of lead (II) and copper (II), 363 (1998) 165
- On-line separation and preconcentration of cadmium, lead and nickel in a fullerene (C<sub>60</sub>) minicolumn coupled to flow injection tungsten coil atomic absorption spectrometry, 368 (1998) 255
- Direct trace determination of lead in estuarine water using in situ preconcentration of lead hydride on Ir, Zr and W-coated graphite tubes, 368 (1998) 281
- PAN-incorporated Nafion-modified spectroscopic graphite electrodes for voltammetric stripping determination of lead, 369 (1998) 93
- A study of the analytical parameters important for the sequential extraction procedure using microwave heating for Pb, Zn and Cu in calcareous soils, 369 (1998) 235
- Mathematical modelling of potentiometric stripping analysis. Chemical stripping in quiet solutions, 377 (1998) 13
- Lead-selective electrode by using benzyl disulphide as ionophore, 378 (1999) 145

- Anodic stripping voltammetry of lead and cadmium using a mercury film electrode and thiocyanate, 385 (1999) 273
- Determination of sub-nanomolar concentrations of lead by anodicstripping voltammetry at the silver electrode, 385 (1999) 325
- Determination of lead in oil products by derivative potentiometric stripping analysis, 386 (1999) 41
- Rapid determination of lead and cadmium in biological fluids by electrothermal atomic absorption spectrometry using Zeeman correction, 390 (1999) 207
- Evaluation of n-substituted aminosulfonic acid pH buffers with a morpholinic ring for cadmium and lead speciation studies by electroanalytical techniques, 394 (1999) 325
- Flow-through room temperature phosphorescence optosensing for the determination of lead in sea water, 395 (1999) 1
- Use of laser ablation inductively coupled plasma mass spectrometry to provide element versus time profiles in teeth, 395 (1999) 179
- Use of hydrofluoric acid to decrease the background signal caused by sodium chloride in electrothermal atomic absorption spectrometry, 396 (1999) 279

#### Lead-210

Magnetic recovery of radium, lead and polonium from seawater samples after preconcentration on a magnetic adsorbent of manganese dioxide coated magnetite, 328 (1996) 53

### Lead and cadmium

Determination of lead and cadmium in whole blood of mothers and their babies, 353 (1997) 307

## Lead and nickel determination

Flow injection on-line coprecipitation-preconcentration system using copper(II) diethyldithiocarbamate as carrier for flame atomic absorption spectrometric determination of cadmium, lead and nickel in environmental samples, 353 (1997) 181

## Lead dioxide

Determination of manganese in natural water and effluent streams using a solid-phase lead(IV) dioxide reactor in a flow-injection system, 350 (1997) 15

## Lead halide

Determination of oxidic impurities in some lead halides, 355 (1997)

## Lead ionophores

Determination of formal complex formation constants of various Pb<sup>2+</sup> ionophores in the sensor membrane phase, 395 (1999) 41

### Lead ione

Stepwise extraction of two lead ions with a single molecule of calix[4]arene tetracarboxylic acid, 387 (1999) 61

Monitoring Pb<sup>2+</sup> with optical sensing films, 388 (1999) 327

## Lead ion-selective electrode

Lead ion-selective membrane electrodes based on some recently synthesized 9,10-anthraquinone derivatives, 360 (1998) 203

### Lead isotope ratios

Determination of lead isotope ratios in port wine by inductively coupled plasma mass spectrometry after pre-treatment by UVirradiation, 396 (1999) 45

## Lead isotopes

Sampling aerosols for lead isotopes on a global scale, 390 (1999) 227

#### Lead isotopic ratios

Determination of lead isotopic ratios in Greenland and Antarctic snow and ice at picogram per gram concentrations, 311 (1995) 141

## Lead oxy(hydroxy)halide

Determination of oxidic impurities in some lead halides, 355 (1997) 171

## Lead propanoate

Evolving polynomial regression and error analysis in model identification and determination of consecutive stability constants using voltammetric methods, 325 (1996) 135

#### Lead(II)

Square-wave voltammetric stripping analysis of lead(II) at a Nafion R/copper-mercury film electrode, 332 (1996) 59

Solvent extraction of Pb(II) from acid medium with zinc hexamamethylenedithiocarbamate followed by back-extraction and subsequent determination by FAAS, 386 (1999) 281

## Lead(II) 2-hydroxypropanoates

Metal complexation model identification and the detection and elimination of erroneous points using evolving least-squares fitting of voltammetric data, 363 (1998) 261

## Lead(II) preconcentration

Solvent impregnated hollow fibre for a selective preconcentration of Pb(II) in an on-line determination by flame atomic absorption spectrometry, 370 (1998) 141

### LEAF

On-line and in-situ detection of lead aerosols by plasma-spectroscopy and laser-excited atomic fluorescence spectroscopy, 346 (1997) 37

### Leaf litter

Classification of binding sites for Al(III) in fulvic acids extracted from leaf litters and soils by synchronous fluorescence spectroscopy and multidimensional chemometric analysis, 333 (1996) 71

## Learning vector quantization

Kohonen neural network as a pattern recognition method based on the weight interpretation, 334 (1996) 57

A comparison study of chemical sensor array pattern recognition algorithms, 384 (1999) 305

## Least median squares

Performance of the orthogonal least median squares regression, 348 (1997) 11

## Least squares

Simultaneous decomposition of several spectra into the constituent Gaussian peaks, 316 (1995) 195

Performance of the orthogonal least median squares regression, 348 (1997) 11

## Least squares optimization of Leden's function extrapolation

Evolving polynomial regression and error analysis in model identification and determination of consecutive stability constants using voltammetric methods, 325 (1996) 135

#### Leaves

Anodic stripping potentiometric determination of antimony in environmental materials, 302 (1995) 225

#### Leaving groups

Polarographic and voltammetric determination of triazine-based reactive azo dyes with 4-carboxypyridyl and 1,4-diazabicyclo[2,2,2]octanyl (DABCO) leaving groups, 362 (1998) 235

#### Lecithin

Second derivative spectrophotometric determination of partition coefficients of chlorpromazine and promazine between lecithin bilayer vesicles and water, 304 (1995) 101

#### LED

A fluorescence lifetime-based solid sensor for water, 350 (1997) 97

#### Levodopa

Peroxidase-based spectrophotometric methods for the determination of ascorbic acid, norepinephrine, epinephrine, dopamine and levodopa, 357 (1997) 261

#### Levonorgestrel

Simultaneous spectrophotometric determination of ethinylestradiol and levonorgestrel by partial least squares and principal component regression multivariate calibration, 340 (1997) 257

### Lewisite

Determination of volatile arsenicals in ambient air by flow injection, 338 (1997) 215

## -Glutamate

Selective flow injection procedures for the determination of nitrogen containing analytes by gasdialytic-fluorimetric detection of enzymatically generated ammonia, 325 (1996) 93

Simultaneous biosensing of inosine monophosphate and glutamate by use of immobilized enzyme reactors, 358 (1998) 127

### -Glutamine

Selective flow injection procedures for the determination of nitrogen containing analytes by gasdialytic-fluorimetric detection of enzymatically generated ammonia, 325 (1996) 93

## Li\*-NASICON

Lithium determination in artificial serum using flow injection systems with a selective solid-state tubular electrode based on NASICON membranes, 350 (1997) 7

### Library search

Trace-level identity confirmation from infrared spectra by library searching and artificial neural networks, 345 (1997) 173

### LIBS

On-line and in-situ detection of lead aerosols by plasma-spectroscopy and laser-excited atomic fluorescence spectroscopy, 346 (1997) 37

## Lifetime

Phase-modulation fluorescence lifetime resolution of quinine and quinidine by ion-pair diastereomeric complexation, 381 (1999)

## Lifetime-based sensing

A fluorescence lifetime-based solid sensor for water, 350 (1997) 97

## Ligand exchange GC

Metallomesogens as stationary phases for ligand exchange gas chromatography - Part I. The use of nickel and zinc complexes of 4-decanoxydithiobenzoic acid for the separation of polycyclic aromatic hydrocarbons and dialkyl sulfides, 332 (1996) 23

## Ligand-exchange gas chromatography

Metallomesogens as stationary phases for the separation of phenols by gas chromatography, 384 (1999) 51

#### Ligands

Application of the Kamlet and Taft model in solvent extraction chemistry of metals, 374 (1998) 137

## Light hydrocarbons

Evaluation of transition metal complexes of aminopropylsilyldithiooxamide bonded phases for gas chromatography, 341 (1997) 35

## Light lanthanides

Determination of lanthanides in magnesium alloys by ion chromatography, 333 (1996) 23

## Light scattering

Light scattering-based determination of fibrinogen in human plasma using an automated continuous system, 327 (1996) 101

## Light source

A simple, highly stable scintillator light source for ultraviolet absorption-based sensors, 367 (1998) 153

## Light-addressable potentiometric sensor

Novel sensors for potassium, calcium and magnesium ions based on a silicon transducer as a light-addressable potentiometric sensor, 382 (1999) 131

## Light-emitting diode

Oxygen detection by fluorescence quenching of tetraphenylporphyrin immobilized in the original cladding of an optical fiber, 370 (1998) 1

## Light-scattering

Three-dimensional spectra of the long-range assembly of Nile Blue sulfate on the molecular surface of DNA and determination of DNA by light-scattering, 395 (1999) 187

### Lignin

Pyrolysis-gas chromatography-mass spectrometry characterization of wheat straw alkaline-cooking effluents after biological treatment with the fungi Phanerochaete chrysosporium and Ganoderma australe, 309 (1995) 145

Use of analytical pyrolysis for the characterization of paper industry effluents, 335 (1996) 245

## Lignin degradation

Chemical characterization by pyrolysis/gas chromatography/mass spectrometry of acid-precipitable polymeric lignin (APPL) from wheat straw transformed by selected streptomyces strains, 345 (1997) 121

## Limit of quantitation

The SFSTP guide on the validation of chromatographic methods for drug bioanalysis: from the Washington Conference to the laboratory, 391 (1999) 135

## Limits of detection

A study of the effects of injection mode, on-capillary stacking and off-line concentration on the capillary electrophoresis limits of detection for four structural types of industrial dyes, 349 (1997) 221

Increased sensitivity in thick-target particle induced X-ray emission analyses using dry ashing for preconcentration, 378 (1999) 273

The SFSTP guide on the validation of chromatographic methods for drug bioanalysis: from the Washington Conference to the laboratory, 391 (1999) 135

## Linalool

Sedative effect on humans of inhalation of essential oil of linalool: . Sensory evaluation and physiological measurements using optically active linalools, 365 (1998) 293

## Linear discriminant analysis

Chemometric analysis and extraction processes of mandarin essential oils, 312 (1995) 199

Comparison of regularized discriminant analysis, linear discriminant analysis and quadratic discriminant analysis, applied to NIR data, 329 (1996) 257

Linear data projection using a feedforward neural network, 348 (1997) 495

Classification of vegetable oils by linear discriminant analysis of Electronic Nose data, 384 (1999) 83

Selecting a representative training set for the classification of demolition waste using remote NIR sensing, 392 (1999) 67

### Linear dynamic range

Extending the concentration and linear dynamic range of ion mobility spectrometry with a sheath flow inlet, 381 (1999) 69

## Linear free-energy relationship

Solute-solvent interactions in normal-phase liquid chromatography: a linear free-energy relationships study, 382 (1999) 301

### Linear hydrocarbons

Efficiency of the microwave-assisted extraction of hydrocarbons and pesticides from sediments, 344 (1997) 241

### Linear regression

A computer program for searching the best model for describing different experimental systems, 340 (1997) 267

Asymmetric distribution of results in calibration curve and standard addition evaluations, 357 (1997) 157

A common framework for the unification of neural, chemometric and statistical modeling methods, 384 (1999) 227

## Linear solvation energy relationships

Characterization of polybutadiene-coated zirconia and comparison to conventional bonded phases by use of linear solvation energy relationships, 334 (1996) 239

Linear solvation energy relationships in normal phase liquid chromatography based on retention data on silica in 2-propanol/ hexane eluents, 342 (1997) 51

Acid-base behaviour of tripeptides in solvents used in liquid chromatography. Correlation between pK values and solvatochromic parameters of acetonitrile-water mixtures, 347 (1997) 295

Characterization and selectivity optimization on diol, amino, and cyano normal phase columns based on linear solvation energy relationships, 368 (1998) 141

Application of linear solvation energy relationships to guide selection of polar modifiers in normal-phase liquid chromatographic separations, 395 (1999) 85

#### Linearity

Diffusion restricting outer membranes for greatly extended linearity measurements with glucose oxidase enzyme electrodes, 333 (1996) 223

The SFSTP guide on the validation of chromatographic methods for drug bioanalysis: from the Washington Conference to the laboratory, 391 (1999) 135

## Linearization of models

Reduction of the relative standard deviation in the least-squares fitting of linearized equations by using sensitivity weights, 316 (1995) 173

## Line-like sample

Quantitative electron paramagnetic resonance (EPR) spectrometry with a TE<sub>104</sub> double rectangular cavity Part 2. Analysis of sample and TE<sub>104</sub> cavity error sources associated with the movement of line-like samples into the TE<sub>104</sub> cavity, 333 (1996) 253

Electron paramagnetic resonance signal intensity of a line-like sample with a variable length situated at an arbitrary position along the common sample-cavity axis. Theoretical prediction versus experimental measurement, 367 (1998) 233

Analytical solution for the electron paramagnetic resonance signal intensity of a line-like sample of variable length whose centre is situated at an arbitrary position along the common sample–cavity x-axis, 373 (1998) 107

## Lineweaver-Burk plot

Use of a peroxidase reactor in flow injection analysis for the determination of chloramine and the inhibition kinetics, 390 (1999) 141

### linker

Evaluating the quality of oligonucleotides that are immobilized on glass supports for biosensor development, 395 (1999) 273

### Lipids

Accelerated solvent extraction of lipids for determining the fatty acid composition of biological material, 358 (1998) 69

## Lipoamidase

Isoelectric focusing of biotinidase and lipoamidase with the addition of non-ionic detergent, 372 (1998) 281

## Lipophilic compounds

In vitro microdialysis of hydrophilic and lipophilic compounds, 355 (1997) 75

## lipophilicity

Lipophilicity of tetraphenylborate derivatives as anionic sites in neutral carrier-based solvent polymeric membranes and lifetime of corresponding ion-selective electrochemical and optical sensors, 309 (1995) 7

## Lipopolysaccharide

Detection of lipopolysaccharide binding peptides by the use of a lipopolysaccharide-coated piezoelectric crystal biosensor, 340 (1997) 49

### Lipoproteins

Application of electrophoretic techniques to the diagnosis of disorders of lipoprotein metabolism. Examples at the levels of lipoproteins and apolipoproteins, 383 (1999) 169

## Liposome immunosorbent assay (LISA)

Biotinylated and streptavidinylated liposomes as labels in cytokine immunoassays, 306 (1995) 333

## Liposomes

Surface and polarization fluorescence studies on the interaction of an RGD sequence containing a Hepatitis A virus peptide with phospholipids, 303 (1995) 65

Biotinylated and streptavidinylated liposomes as labels in cytokine immunoassays, 306 (1995) 333

Improved liposome immunomigration strip assay for alachlor determination, 311 (1995) 309

Comparison of liposome amplification and fluorophor detection in flow-injection immunoanalyses, 354 (1997) 23

Disposable liposome immunosensor for theophylline combining an immunochromatographic membrane and a thick-film electrode, 380 (1999) 17

Simultaneous quantitative determination of diazepam and liposomes using differential pulse polarography, 391 (1999) 83

Production and characterization of sulforhodamine B containing large unilamellar vesicles labeled with atrazine, 399 (1999) 185

Optochemical sensing by immobilizing fluorophore-encapsulating liposomes in sol-gel thin films, 400 (1999) 45

## Lipoyl-β-cyclodextrin derivative

Voltammetric responsive sensors for organic compounds based on organized self-assembled lipoyl-β-cyclodextrin derivative monolayer on a gold electrode, 337 (1997) 217

## Liquid chromatography

Indirect conductometric detection of amino acids after liquid chromatographic separation Part II. determination of monosodium glutamate in foods, 302 (1995) 45

6-Isothiocyanatobenzo [g]phthalazine-1,4(2H,3H)-dione as a highly sensitive chemiluminescence derivatization reagent for amines in liquid chromatography, 302 (1995) 61

Determination of anabolic steroids in pharmaceuticals by liquid chromatography with a microemulsion of sodium dodecyl sulfate and pentanol as mobile phase, 302 (1995) 163

- Determination of quinolinic acid in human urine by liquid chromatography with fluorimetric detection, 302 (1995) 179
- Determination of triphenyltin in sea water samples by liquid chromatography with fluorimetric detection, 302 (1995) 185
- Identification of stereoisomeric benzo[a]pyrene tetrols by reversedphase liquid chromatography coupled semi-on-line to fluorescence line-narrowing spectroscopy, 303 (1995) 3
- Post-column zirconium chelation and fluorescence detection for the liquid chromatographic determination of tetracyclines, 303 (1995) 11
- Automated monitoring of amino acids during fermentation processes using on-line ultrafiltration and column liquid chromatography: application to fermentation medium improvement, 303 (1995) 175
- Determination of EDTA and DTPA as their Fe(III) complexes in pulp and paper mill process and waste waters by liquid chromatography, 303 (1995) 187
- Liquid chromatographic determination of cyclosporin A using aryl oxalate chemiluminescence detection, 303 (1995) 333
- Determination of phenols in sea water by liquid chromatography with electrochemical detection after enrichment by using solidphase extraction cartridges and disks, 304 (1995) 75
- A rapid procedure for the determination of caffeine, theophylline and theobromine in urine by micellar liquid chromatography and direct sample injection, 304 (1995) 195
- Membrane extraction-preconcentration cell coupled on-line to flowinjection and liquid chromatographic systems. Determination of triazines in oils, 304 (1995) 323
- Determination of N-nitrosopiperidine in beers by liquid chromatography with reductive amperometric detection at a hanging mercury drop electrode, 305 (1995) 310
- Minimization of plasma interferences by liquid chromatography with electrochemical detection after ultraviolet irradiation using chlordiazepoxide as a model substance, 305 (1995) 318
- Determination of carbohydrate heterogeneity in the humanised antibody CAMPATH 1H by liquid chromatography and matrix-assisted laser desorption ionisation mass spectrometry, 306 (1995) 43
- Determination of theophylline by liquid chromatography with sensitized lanthanide luminescence detection, 306 (1995) 49
- Liquid chromatographic determination of 2-furaldehyde and 5hydroxymethyl-2-furaldehyde in beer, 306 (1995) 57
- Determination of free N-acetyl neuraminic acid by ultrafiltration and liquid chromatography in the serum of normal and cancer patients, 306 (1995) 65
- Liquid chromatographic determination of base oil composition and content in lubricating oils containing dispersants of the polybutenylsuccinimide type, 306 (1995) 73
- Reversed phase-liquid chromatography of primary and secondary aliphatic amines after derivatization combined with electrochemical detection, 306 (1995) 273
- Determination of betamethasone and dexamethasone in plasma by fluorogenic derivatization and liquid chromatography, 307 (1995) 103
- Determination of selenium compounds in urine samples by liquid chromatography-inductively coupled plasma mass spectrometry with an ultrasonic nebulizer, 307 (1995) 109

- Co-current chromatography: a new mode of liquid-liquid chromatography, 307 (1995) 173
- Temperature and solvation effects on homologous series selectivity in reversed phase liquid chromatography, 307 (1995) 203
- Pulsed electrochemical detection of thiocompounds following microchromatographic separations, 307 (1995) 301
- Parallel Kalman filters for peak purity analysis: extensions to nonideal detector response, 307 (1995) 459
- On-line electrochemistry-liquid chromatography with UV absorbance detection for elucidating the electrochemical oxidation mechanism of α-tocopherol in methanol, 309 (1995) 111
- Simultaneous and consecutive two-photon excited fluorescence detection in conventional-size liquid chromatography, 309 (1995) 135
- Liquid chromatographic separation of polycyclic aromatic hydrocarbons with cerium(IV) oxide as packing material, 309 (1995) 153
- Determination of molybdenum in various materials by normal-phase liquid chromatography using N-benzoyl-N-phenylhydroxylamine, 309 (1995) 157
- Ultraviolet detection of peptides by reversed-phase liquid chromatography using an in-line reactor containing copper metal, 309 (1995) 169
- Effect of molecular structure on the solute-micelle and solutestationary phase binding constants in micellar liquid chromatography, 310 (1995) 461
- Platinum/glassy carbon electrode as detector for liquid chromatographic determination of hydroxyl-containing compounds, 311 (1995) 37
- A cyanine fluorophore with a hydrazide functionality as labelling reagent for aldehydes in liquid chromatography, 311 (1995) 47
- Comparative study of on-line solid phase extraction followed by UV and electrochemical detection in liquid chromatography for the determination of priority phenols in river water samples, 311 (1995) 63
- Determination of Cu(II) and Ni(II) as chelates with butyl xanthate by liquid chromatography with electrochemical and spectrophotometric detection, 311 (1995) 225
- Signal enhancement of dansyl amino acids by fluorimetric detection with a packed flow cell in microcolumn liquid chromatography, 311 (1995) 231
- Validation of an enzymatic biosensor with various liquid chromatographic techniques for determining organophosphorus pesticides and carbaryl in freeze-dried waters, 311 (1995) 265
- Validation of two immunoassay methods for environmental monitoring of carbaryl and 1-naphthol in ground water samples, 311 (1995) 319
- On-line preconcentration and liquid chromatographic analysis of phenylurea pesticides in environmental water using a silicabased immunosorbent, 311 (1995) 429
- Solvatochromic studies of the surface polarity of silica under normal-phase conditions, 312 (1995) 127
- Speciation of tin by reversed phase liquid chromatography with inductively coupled plasma mass spectrometric detection, 312 (1995) 141
- Use of conductimetry for the monitoring of thermodynamicallycontrolled enzymatic peptide synthesis, 312 (1995) 213

- Optimization of liquid chromatographic parameters for the separation of priority phenols by using mixed-level orthogonal array design, 312 (1995) 271
- Hemoglobin interference with an enzyme-linked immunosorbent assay for the detection of tumor necrosis factor-alpha, 313 (1995)
- Determination of benzhexol hydrochloride and ethambutol hydrochloride tablets by liquid chromatography, 314 (1995) 77
- Eigenstructure tracking analysis for assessment of peak purity in high-performance liquid chromatography with diode array detection, 314 (1995) 131
- Enantiometric separation of di- and tri-peptides with chiral fluorescence labeling reagents by liquid chromatography, 314 (1995) 169
- Liquid chromatographic determination of triphenyltin and tributyltin using fluorimetric detection, 314 (1995) 175
- On-line preconcentration of selenium(IV) and selenium(VI) in aqueous matrices followed by liquid chromatography-inductively coupled plasma mass spectrometry determination, 314 (1995) 183
- Determination of fat-soluble vitamins by capillary liquid chromatography in bovine blood plasma, 315 (1995) 177
- Determination of octanol-water partition coefficients using gradient liquid chromatography, 315 (1995) 183
- Automatic determination of liposoluble vitamins in butter and margarine using Triton X-100 aqueous micellar solution by liquid chromatography with electrochemical detection, 315 (1995) 201
- Sensitive assay for melatonin in human serum by liquid chromatography, 316 (1995) 377
- Assessment of peak purity in liquid chromatography using condition index and singular value evolving profiles, 317 (1995) 17
- Study of the chelation of boron with Azomethine H by differential pulse polarography, liquid chromatography and capillary electrophoresis and its analytical applications, 317 (1995) 295
- On-line sample handling strategies for the trace-level determination of pesticides and their degradation products in environmental waters, 318 (1995) 1
- Determination of penicillins in animal tissues at trace residue concentrations Part I. Determination of benzylpenicillin in milk by reversed-phase liquid chromatography with solid phase extraction and liquid chromatographic fractionation clean-up, 318 (1995) 95
- Corrections for heteroscedasticity in window evolving factor analysis, 318 (1996) 125
- Determination of acetylcholine and choline with platinum-black ultramicroarray electrodes using liquid chromatography with a post-column enzyme reactor, 318 (1996) 167
- Flow-injection analysis and liquid chromatography: surfaceenhanced Raman spectrometry detection by using a windowless flow cell, 318 (1996) 203
- Speciation of vitamin B<sub>12</sub> analogues by liquid chromatography with flame atomic absorption spectrometric detection, 318 (1996) 319
- Arsenic speciation in serum of uraemic patients based on liquid chromatography with hydride generation atomic absorption spectrometry and on-line UV photo-oxidation digestion, 319 (1996) 177

- Liquid chromatographic determination of taxol and related derivatives using a new polyfluorinated reversed-phase column, 319 (1996) 187
- Simultaneous determination of inorganic anions and carboxylic acids in wine using isocratic separation on a permanently coated reversed-phase column and UV indirect detection, 321 (1996) 263
- Determination of active components in insecticide formulations by liquid chromatography and resolution of overlapped peaks by multivariate analysis and derivative spectrophotometry, 321 (1996) 273
- Liquid chromatographic determination of methylamines. Determination of trimethylamine in fish samples using a porous graphitic carbon stationary phase, 322 (1996) 63
- Investigation of the electrochemical oxidation of clenbuterol at a porous carbon electrode, and its application to the determination of this  $\beta$ -agonist in bovine hair by liquid chromatography with coulometric detection, 322 (1996) 159
- The analytical potential of diode laser-based intracavity absorption detection in column liquid chromatography, 323 (1996) 1
- A study of irreversible electrode processes under steady-state flowing solution conditions with a microelectrode based scanning electrochemical detector, 324 (1996) 1
- Liquid chromatographic and infrared studies on ethylenediamineplatinum(II) guanosine complexes, 324 (1996) 155
- Description of the partitioning behaviour of solutes and data treatment in micellar liquid chromatography with modifiers, 324 (1996) 163
- Electrochemical study of the flavour enhancer maltol. Determination in foods by liquid chromatography with amperometric detection, 327 (1996) 65
- Sensitive liquid chromatographic determination of hydrophobic primary and secondary amines by derivatization to form highly fluorescent thiazoles, 327 (1996) 153
- High-performance liquid chromatography with electrochemical detection for the determination of vanadium(V) in river water and mussel samples, 327 (1996) 203
- α-Cyclodextrin as a restricted access mobile phase for reversedphase liquid chromatography with fluorimetric detection of phenolic compounds, 328 (1996) 73
- Forward-scattering degenerate four-wave mixing as a potential laser-based absorption detection method in liquid separation systems: Coupling to conventional-size liquid chromatography, 330 (1996) 189
- Computational chemical analysis of chiral recognition in liquid chromatography, selectivity of N-(R)-1-(α-naphthyl)ethylamino carbonyl-(R or S)-valine and N-(S)-1-(α-naphthyl)ethylamino carbonyl-(R or S)-valine bonded aminopropyl silica gels, 332 (1996) 213
- Aluminum speciation by liquid chromatography concerning hydroand geo-chemical aspects, 332 (1996) 233
- Determination of pharmaceutical thiols by liquid chromatography with electrochemical detection: Use of an electrode with a conductive carbon cement matrix, chemically modified with cobalt phthalocyanine, 332 (1996) 249
- Modelling and optimization of the separation of steroids eluted with a micellar mobile phase of sodium dodecyl sulphate containing acetonitrile, 333 (1996) 31

- Determination of secondary amines as highly fluorescent formamidines by high-performance liquid chromatography, 334 (1996) 45
- A comparison of various calibration techniques applied to the ninhydrin-cefoxitin determination, 334 (1996) 199
- Development of a sensitive radioimmunoassay for the potential antimigraine drug GR151004: including cross-validation to liquid chromatography-mass spectrometry-mass spectrometry and application to pharmacokinetic studies, 334 (1996) 225
- Identification and quantification of overlapped peaks in liquid chromatography with UV diode array detection using an adaptive Kalman filter, 335 (1996) 1
- Copper dispersed into polyaniline films as an amperometric sensor in alkaline solutions of amino acids and polyhydric compounds, 335 (1996) 217
- Liquid chromatography/electrochemical detection of phenols at a Poly[Ni-(Protoporphyrin IX)] chemically modified electrode, 336 (1996) 195
- Enhancing the performance of membrane introduction mass spectrometry by organic carrier and liquid chromatographic separation, 337 (1997) 165
- Liquid chromatography of carboxylic acids using potentiometric detection with a tungsten oxide electrode, 338 (1997) 41
- Detection of menadione sodium bisulfite (vitamin K<sub>3</sub>) by reversedphase high performance liquid chromatography with series dualelectrode amperometric detector, 338 (1997) 57
- Trace determination of triazine herbicides by means of coupledcolumn liquid chromatography and large volume injection, 338 (1997) 223
- Effective purification of ellagic acid by successive automatic recrystallization and absolute determination of purity by absorptivity ratio, 338 (1997) 247
- Determination of phenols in water by on-line solid-phase disk extraction and liquid chromotography with electrochemical detection, 340 (1997) 191
- Stability studies of arsenate, monomethylarsonate, dimethylarsinate, arsenobetaine and arsenocholine in deionized water, urine and clean-up dry residue from urine samples and determination by liquid chromatography with microwave-assisted oxidationhydride generation atomic absorption spectrometric detection, 340 (1997) 209
- Linear solvation energy relationships in normal phase liquid chromatography based on retention data on silica in 2-propanol/ hexane eluents, 342 (1997) 51
- Gradient elution liquid chromatography-infrared spectrometry at µg I<sup>-1</sup> level using capillary column switching and addition of a make-up liquid. A preliminary study, 342 (1997) 151
- A microelectrochemical detector for use at low linear velocities in capillary column systems, 344 (1997) 77
- Derivatization of amines in solid-phase extraction supports with 9-fluorenylmethyl chloroformate for liquid chromatography, 344 (1997) 125
- Formation constants of polynuclear aromatic compounds and β-cyclodextrin inclusion complexes in β-cyclodextrin modified mobile phase high performance liquid chromatography system, 344 (1997) 137
- 4-N,N-Dimethylaminosulfonyl-7-N-(2-aminoethyl)aminobenzofurazan as a new precolumn fluorescence derivatization reagent for

- carboxylic acids (fatty acids and drugs containing a carboxyl moiety) in liquid chromatography, 344 (1997) 227
- Aromatic glycinonitriles and methylamines as pre-column fluorescence derivatization reagents for catecholamines, 344 (1997) 233
- Liquid chromatography-amperometric detection of nitrite using a polypyrrole modified glassy carbon electrode doped with tungstodiphosphate anion, 345 (1997) 147
- Determination of pentachlorophenol in certified waste waters, soil samples and industrial effluents using ELISA and liquid solid extraction followed by liquid chromatography, 346 (1997) 49
- 6-Aminomethylphthalhydrazide as a highly sensitive chemiluminescence derivatization reagent for 5-hydroxyindoles in liquid chromatography, 346 (1997) 175
- Acid-base behaviour of tripeptides in solvents used in liquid chromatography. Correlation between pK values and solvatochromic parameters of acetonitrile-water mixtures, 347 (1997) 295
- Global treatment of chromatographic data with MICHROM, 348 (1997) 187
- Coupling of column liquid chromatography and surface-enhanced resonance Raman spectroscopy via a thin-layer chromatographic plate, 349 (1997) 189
- Determination of imidacloprid and its major metabolite in soils by liquid chromatography with pulsed reductive amperometric detection, 349 (1997) 199
- Liquid chromatography of peptides treated with fluorogenic reagents and its application to analyses of opioid peptides, their precursors and related enzymes in rat brain, 352 (1997) 103
- Chromatography of microcystins, 352 (1997) 277
- Photoreduction-hydride generation: a new on-line system for the determination of selenate and selenite, 353 (1997) 91
- Evaluation of ticlopidine in human serum and plaque by liquid chromatography/atmospheric pressure chemical ionization mass spectrometry, 354 (1997) 87
- Liquid chromatography-Fourier transform infrared spectrometric determination of cholesterol in animal greases, 354 (1997) 97
- The use of titanium dioxide as a photo-catalyst to improve the sensitivity of post-column photolysis-electrochemical detection for microbore liquid chromatography, 356 (1997) 177
- Determination of vanadium species in water samples by liquid chromatography-inductively coupled plasma mass spectrometry, 357 (1997) 211
- Determination of branched carbon number distribution of polyacrylate by liquid chromatography, 357 (1997) 219
- A dual arsenic speciation system combining liquid chromatographic and purge and trap-gas chromatographic separation with atomic fluorescence spectrometric detection, 358 (1998) 51
- Determination of polychlorinated biphenyls by liquid chromatography following cloud-point extraction, 358 (1998) 145
- Diastereoisomer separation of methylidene malonate 2.1.2 oligomerization products by liquid chromatography using a non-chiral stationary phase, 359 (1998) 57
- Peroxide analysis in laundry detergents using liquid chromatography, 363 (1998) 97
- Optimisation of the extraction of arsenic species from mussels with low power focused microwaves by applying a Doehlert design, 364 (1998) 19

- Liquid chromatographic determination of 5-methylcytosine in DNA with fluorescence detection, 365 (1998) 213
- Simultaneous determination of 7-methylguanine and 0°-methylguanine in DNA by liquid chromatography with postcolumn fluorescence derivatization using 3,4-dimethoxyphenylglyoxal, 365 (1998) 233
- New reagents for determination of amino acids by liquid chromatography with pre-column fluorescence derivatization, 367 (1998) 81
- Potentiometric detection of organic acids in liquid chromatography using conducting oligomer electrodes, 370 (1998) 105
- Cloud point preconcentration and liquid chromatographic determination of aromatic amines in dyestuffs, 373 (1998) 197
- Determination of five selenium compounds in urine by liquid chromatography with focused microwave assisted digestion and hydride generation–atomic absorption spectrometric detection, 374 (1998) 241
- Soil column extraction followed by liquid chromatography and electrospray ionization mass spectrometry for the efficient determination of aryloxyphenoxypropionic herbicides in soil samples at ng g<sup>-1</sup> levels, 375 (1998) 107
- Determination of parabens in cosmetic products by supercritical fluid extraction and capillary zone electrophoresis, 377 (1998) 85
- Method development and validation for the simultaneous determination of dyes in foodstuffs by capillary zone electrophoresis, 378 (1999) 63
- Separation of radiolabelled arsenic compounds produced by neutron irradiation of organoarsenic compounds, 380 (1999) 63
- Fluorescence properties of carbazole-9-yl-acetyl chloride and its application for the simultaneous determination of amino acids and biogenic amines via liquid chromatography with fluorescence detection, 382 (1999) 51
- A new fluorescent probe for sensitive detection of carbonyl compounds, 382 (1999) 253
- Solute-solvent interactions in normal-phase liquid chromatography: a linear free-energy relationships study, 382 (1999) 301
- Determination of diflubenzuron and its main metabolites in forestry matrices by liquid chromatography with on-line diode-array and electrochemical detection, 384 (1999) 63
- Determination of thiocompounds by liquid chromatography with amperometric detection at a Nafion/indium hexacyanoferrate film modified electrode, 386 (1999) 21
- Selenium speciation with on-column preconcentration high-performance liquid chromatography atomic fluorescence spectrometry using ultrasonic nebulization technique, 386 (1999) 89
- Automated analysis for vitamin E in butter by coupling sample treatment – continuous membrane extraction – liquid chromatography with electrochemical detection, 386 (1999) 99
- Simple and highly sensitive determination of morphine in rat plasma by liquid chromatography with fluorescence detection, 387 (1999) 121
- Chromatographic behavior of ionizable compounds in liquid chromatography. Part 2. Standardization of potentiometric sensors and effect of pH and ionic strength on the retention of analytes using acetonitrile-water mobile phases, 389 (1999) 43

- Waveform optimization for integrated square-wave detection of biogenic amines following their liquid chromatographic separation, 390 (1999) 45
- Membrane desolvation for the analysis of organic solutions and liquid chromatographic samples with low power helium microwave induced plasma atomic emission detection, 390 (1999) 217
- Redox-modulated solute retention on iron-protoporphyrin-silica stationary phases, 392 (1999) 191
- Determination of permethrin in indoor air by liquid chromatography with enzyme linked immunosorbent assay, 393 (1999) 103
- Liquid chromatography of metal chelates. Chromatographic studies of homologous dialkyldithiocarbamates, 395 (1999) 101
- Evaluation of several global resolution functions for liquid chromatography, 396 (1999) 61
- Multichannel amperometric detection system for liquid chromatography to assay the thiols in human whole blood using the platinum microelectrodes chemically modified by copper tetraaminophthalocyanine, 399 (1999) 213
- Influence of column temperature on the ion chromatographic separation of aluminum species, 399 (1999) 223

## Liquid chromatography (LC)

Workplace monitoring of oximes using 2,4-dinitrophenylhydrazinecoated silica gel cartridges and liquid chromatography, 388 (1999) 181

## Liquid chromatography, reversed-phase

Electron-capture detection in reversed-phase liquid chromatography using packed-capillary columns, 304 (1995) 47

## Liquid core waveguide

- Long pathlength absorbance spectroscopy: trace analysis of Fe(II) using a 4.5 m liquid core waveguide, 357 (1997) 99
- Chemiluminescence detection with a liquid core waveguide. Determination of ammonium with electrogenerated hypochlorite based on the luminol-hypochlorite reaction, 398 (1999) 33

## Liquid crystal coating

Surface morphology and the response of piezoelectric gas sensors, 315 (1995) 83

## Liquid crystals

Differential scanning calorimetric and Fourier transform infrared spectrometric investigations of the influence of silica on the liquid crystalline properties of 4'-cyano-4-biphenyl[4-(4-pentenyloxy)]benzoate, 315 (1995) 77

## Liquid drop

A liquid drop: A windowless optical cell and a reactor without walls for flow injection analysis, 326 (1996) 13

### Liquid effects

Evaluation of methods to minimize effects of liquid viscosity and density on the oscillating frequencies of thickness-shear-mode (TSM) piezoelectric resonators, 312 (1995) 217

## Liquid food

Enzyme immunoassays for s-triazine herbicides and their application in environmental and food analysis, 311 (1995) 349

## Liquid junction

An integrated three-electrode system with a micromachined liquidjunction Ag/AgCl reference electrode, 387 (1999) 103

## Liquid membranes

Iodide-selective electrodes based on the silver(I) complex of a novel N-thiocarbamoylimine-dithioether derivative, 329 (1996) 247

Selective membrane transport of dicarboxylic acids in their neutral form by a synthetic receptor containing amidopyridine groups, 343 (1997) 287

Electrical potential oscillation across a water/octanol/water liquid membrane in the presence of two taste substances, 365 (1998) 279

## Liquid polymeric membranes

Synthesis and characterization of fluorophore-absorber pairs for sensing of ammonia based on fluorescence, 360 (1998) 119

#### Liquid scintillation

Classical versus multivariate calibration for a beta emitter (14C) activity determination by liquid scintillation counting, 331 (1996) 33

## a liquid scintillation

Determination of low concentrations of americium and curium by photon/electron rejecting alpha liquid scintillation, 363 (1998) 279

## Liquid scintillation

Determination of mixtures of alpha emitting isotopes (<sup>242</sup>Pu, <sup>239+240</sup>Pu, <sup>238</sup>Pu) by using liquid scintillation–moving curve fitting, 380 (1999) 83

### Liquid scintillation analysis

Optimised method for the routine determination of Technetium-99 in environmental samples by liquid scintillation counting, 380 (1999) 73

## Liquid scintillation counting (LSC)

Simultaneous determination of plutonium alpha emitters by liquid scintillation counting using multivariate calibration, 310 (1995) 297

Simultaneous measurement of <sup>226</sup>Ra and <sup>133</sup>Ba using liquid scintillation counting with pulse shape discrimination, 332 (1996) 291

Improved technique for the routine determination of tritiated water in aqueous samples, 382 (1999) 225

## Liquid/gas interface

Scanning electrochemical microscopy: beyond the solid/liquid interface, 385 (1999) 223

### Liquid-core optical fiber

Spectrophotometry with liquid-core optical fibre in aqueous solution phase in the ultraviolet region, 375 (1998) 261

## Liquid-liquid distribution

Thermodynamic characterization of the liquid-liquid extraction of silver by acyclic dithia benzene derivatives, 375 (1998)

## Liquid-liquid extraction

Ultramicroelectrode study without deliberately added electrolyte: application to the analysis of liquid-liquid extraction processes in dichloromethane, 305 (1995) 137

Two-phase liqui-liquid extraction in monosegmented flow analysis.

Determination of cadmium with 1-(2'-pyridylazo) naphthol, 308
(1995) 231

Spectrofluorimetric determination of berberine in oriental pharmaceutical preparations by flow-injection analysis coupled with liquid-liquid extraction, 308 (1995) 329

An automated flow-reversal injection/liquid-liquid extraction approach to the direct determination of total free fatty acids in olive oils, 318 (1996) 187

Liquid-liquid extraction of iron(III) and gallium(III) with macrocyclic Schiff bases containing bisphenol A subunits, 319 (1996)

Residence time model for assessing liquid-liquid extraction systems, 330 (1996) 229

Evaluation of extraction alternatives for Fourier transform infrared spectrometric determination of oil and greases in water, 345 (1997) 161

Liquid-liquid extraction of cationic metal complexes with p-nonylphenol solvent: Application to crown and thiacrown ether complexes of lead (II) and copper (II), 363 (1998) 165

## Liquid-liquid interface

Acid-catalyzed interfacial complexation in the extraction kinetics of palladium(II) with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol, 364 (1998) 53

Application of Fourier transform to four-electrode microvoltammetric system for studies on micro-ITIES electroanalysis, 382 (1999) 137

Scanning electrochemical microscopy: beyond the solid/liquid interface, 385 (1999) 223

Plutonium(III)-ion selective electrode of liquid membrane type using multidentate phosphine oxide ionophore, 387 (1999) 181

Isomer recognizing adsorption of palladium(II)-2-(5-bromo-2-pyridylazo)-5-diethylaminophenol with diazine derivatives at the toluene-water interface, 394 (1999) 23

### Liquid-liquid microextraction

Microextraction procedures combined with large volume injection in capillary gas chromatography for the determination of pesticide residues in environmental aqueous samples, 356 (1997) 125

## Liquid-liquid microinterface

Vitamin B<sub>1</sub> ion-selective microelectrode based on a liquid-liquid interface at the tip of a micropipette, 312 (1995) 329

## Lithium

Rapid determination of lithium in human serum and urine, at physiological concentrations, by inductively coupled argon plasma atomic emission spectrometry, 327 (1996) 301

Photocured polymers in ion-selective electrode membranes Part 6: Photopolymerized lithium sensitive ion-selective electrodes for flow injection potentiometry, 335 (1996) 111 Precise determination of lithium isotopic composition by thermal ionization mass spectrometry in natural samples such as seawater, 370 (1998) 215

Characterization of a single-piece all-solid-state lithium-selective electrode based on soluble conducting polyaniline, 385 (1999) 163

## Lithium analysis

Lithium determination in artificial serum using flow injection systems with a selective solid-state tubular electrode based on NASICON membranes, 350 (1997) 7

## Lithium ion

PVC membrane lithium-selective electrodes based on oligomethylene-bridged bis-1,10-phenanthroline derivatives, 329 (1996) 57

## Lithium isotopic composition

Extraction of lithium from GSJ rock reference samples and determination of their lithium isotopic compositions, 340 (1997) 221

## Lithium-ion selectivity

Synthesis and cation-extraction study of chromogenic 14-crown-4 derivatives for spectrophotometric determination of lithium, 375 (1998) 81

## Litter organics

A chromatographic method to characterize copper-binding ligands, 332 (1996) 241

#### Liver

Gel electrophoresis for studying biological function, 372 (1998) 33 Characterization of dugong liver ferritin, 393 (1999) 235

### Liver esterase

Fluoride determination by its inhibitory effect on immobilised liver esterase, 310 (1995) 173

## Liver microsomes

Study of coumarin metabolism by human liver microsomes using capillary electrophoresis, 310 (1995) 101

### I -I actate

Development of a chemiluminescence detector with photodiode detection for flow-injection analysis and its application to \$\ell\$-lactate analysis, 316 (1995) 323

Immobilized enzyme electrode for the determination of L-lactate in food samples, 345 (1997) 37

Biosensors for L-malate and L-lactate based on solid binding matrix, 379 (1999) 193

## L-lactate biosensor

Electrochemical characteristics of a carbon-based thick-film L-lactate biosensor using L-lactate dehydrogenase, 336 (1996) 57

Biosensor for L-lactate determination as an index of E. coli number in crude culture medium, 361 (1998) 45

## L-lactate dehydrogenase

Mathematical model for the determination of enzyme activity based on enzymatic amplification by substrate cycling, 346 (1997) 215

## 1-lactate dehydrogenase (LDH)

Biosensor for 1-lactate determination as an index of *E. coli* number in crude culture medium, 361 (1998) 45

## L-lactate in cell culture

Biosensor for L-lactate determination as an index of *E. coli* number in crude culture medium, 361 (1998) 45

## L-lactate oxidase (LOD)

Mathematical model for the determination of enzyme activity based on enzymatic amplification by substrate cycling, 346 (1997) 215 Biosensor for L-lactate determination as an index of *E. coli* number in crude culture medium, 361 (1998) 45

## L-lactate recycling

Biosensor for L-lactate determination as an index of E. coli number in crude culture medium, 361 (1998) 45

#### L-Lactate sensor

A bienzyme modified carbon paste electrode for the amperometric detection of L-lactate at low potentials, 319 (1996) 79

#### L-lactic acid

Amperometric ℓ-lactate-sensing electrode based on a polyion complex layer containing lactate oxidase. Application to serum and milk samples, 314 (1995) 233

Simultaneous monitoring of glucose and L-lactic acid during a fermentation process in an aqueous two-phase system by online FIA with microdialysis sampling and dual biosensor detection, 366 (1998) 127

## L-Lysine

Selective flow injection procedures for the determination of nitrogen containing analytes by gasdialytic-fluorimetric detection of enzymatically generated ammonia, 325 (1996) 93

### L-Malate

Biosensors for L-malate and L-lactate based on solid binding matrix, 379 (1999) 193

## 1.-3-methoxy-4-hydroxyphenylglycol

Syntheses of antigens conjugated with 3-methoxy-4-hydroxyphenylglycol by Mannich reaction for enzyme immunoassay, 365 (1998) 137

## Local anaesthetics

Chemiluminescence determination of some local anaesthetics, 303 (1995) 137

## Log-normal equations

A low cost, open and flexible on-line data acquisition system for instrumental chromatography, 306 (1995) 285

## Long lifetime

Thickness-shear-mode acoustic-wave sensor based on *n*-butylamine plasma-deposition film for detection of carboxylic acid vapours, 384 (1999) 37

## Long pathlength spectroscopy

Long pathlength absorbance spectroscopy: trace analysis of Fe(II) using a 4.5 m liquid core waveguide, 357 (1997) 99

## Long-chain choline derivatives

Interaction of long-chain choline derivatives with firefly luciferase and their use as reagents for the extraction of intracellular ATP from microorganisms, 303 (1995) 85

## Long-path fluorescence

Time-resolved spectroscopy of long-path fluorescence and scattering for measuring total absorption of fluids, 330 (1996) 183

### Loop diuretics

Electrochemical determination of the loop diuretics piretanide and furosemide in pharmaceutical formulations and urine, 305 (1995) 332

## Lophine

Evaluation of lophine derivatives as chemiluminogens by a flowinjection method, 303 (1995) 103

## Loprazolam

Electrooxidation and determination of the 1,4-benzodiazepine loprazolam at the carbon-paste electrode, 305 (1995) 91

#### Lorentzian

Simulation of chromatographic peaks by simple functions, 312 (1995) 263

## **l**-Ornithine

Continuous kinetic method for the quantitative resolution of structural isomers of arginine and ornithine, 315 (1995) 145

## Loss

In vitro microdialysis of hydrophilic and lipophilic compounds, 355 (1997) 75

## Low activities

Determination of low concentrations of americium and curium by photon/electron rejecting alpha liquid scintillation, 363 (1998)

Study of neptunium measurement by alpha liquid scintillation with rejection of β-γ emitters, 398 (1999) 205

## Low dispersion determinations

Air-segmented flow injection: a hybrid technique for automated, low dispersion determinations, 303 (1995) 231

## Low ionic strength

Voltammetric investigation of the complexation equilibria in the presence of a low level of supporting electrolyte Part 1: Steady-state current-potential curves for inert complexes, 337 (1997) 5

Voltammetric investigation of the complexation equilibria in the presence of a low level of supporting electrolyte. Experiments with an inert complex, 377 (1998) 29

### Low power

Application of slurry sample introduction to a low-power inductively coupled plasma atomic emission spectrometer incorporating a mini-torch, 342 (1997) 83

## Low power photomultiplier tube (PMT)

Flow methods for the determination of polycyclic aromatic hydrocarbons using low power photomultiplier tube and charge coupled device chemiluminescence detection, 346 (1997) 113

## Low temperature fluorescence spectroscopy

Applicability of low temperature high-resolution fluorescence spectroscopy to the analysis of nitro and amino polycyclic aromatic hydrocarbons, 312 (1995) 165

## Low-budget flow-injection valve

Low-budget flow-injection device for teaching: A \$10 six-port valve, 366 (1998) 217

## Lower detection limits

Ion sensors: current limits and new trends, 393 (1999) 11

## Low-permitivity organic solvents

Analytical performance of cylindrical carbon fiber microelectrodes in low-permitivity organic solvents: determination of vanillin in ethyl acetate, 385 (1999) 241

## LTS

Simultaneous immunoassay using piezoelectric immunosensor array and robust method, 336 (1996) 185

#### L-Tyrosine

A study of irreversible electrode processes under steady-state flowing solution conditions with a microelectrode based scanning electrochemical detector, 324 (1996) 1

## Lubricating oil androstenone

Illustration of important mechanisms controlling mass transfer in supercritical fluid extraction, 368 (1998) 117

## Lubricating oils

Determination of metallo-organic species in lubricating oil by electrothermal vaporization inductively coupled plasma mass spectrometry, 320 (1996) 11

Characterization of engine motor oils dispersants of the polybutenylsuccinimide type by saponification, methylation and size exclusion chromatography, 322 (1996) 31

## Luciferin

Simultaneous assay of pepsinogen I and pepsinogen II in serum by bioluminescent enzyme immunoassay using two kinds of Luciola lateralis luciferase, 395 (1999) 265

## Lucigenin

Highly sensitive immunological assays for human chorionic gonadotrophin and prostatic acid phosphatase using phenacyl phosphate as a chemiluminescent label, 309 (1995) 221

Chemiluminescent enzymatic assay for cholesterol in serum using lucigenin, 310 (1995) 347

## Luminescence

Time-resolved, total internal reflection fluorescence microscopy of cultured cells using a Tb chelate label, 307 (1995) 403

Solid-matrix luminescence in glucose and trehalose glasses with heavy-atom salts, 332 (1996) 299

New polar plasticizers for luminescence-based sensors, 337 (1997)

Porphyrin-doped sol-gel glass as a probe for oxygen sensing, 342 (1997) 181

Room-temperature phosphorescence of acenaphthene in aerated solutions in the presence of bromoalcohols and  $\gamma$ -cyclodextrin, 370 (1998) 199

New organosilicon polymer for the extraction and luminescence analysis of uranyl in environmental samples, 396 (1999) 263

#### Luminescence analysis

Microscale application of the SOS-LUX-TEST as biosensor for genotoxic agents, 387 (1999) 289

#### Luminescence quenching

A reusable optical sensing layer for picric acid based on the luminescence quenching of the Eu-thenoyltrifluoroacetone complex, 318 (1996) 175

## Luminescent detection

Development and characterization of anodically initiated luminescent detection for alcohols and carbohydrates, 337 (1997) 207

#### Luminol

Sensitivity enhancement in the determination of silicate by ionexclusion chromatography using luminol chemiluminescence detection, 302 (1995) 173

Study of the enhanced chemiluminescence from the luminol-horseradish peroxidase-hydrogen peroxide-p-coumaric acid system at very short times: stopped flow selective determination of pcoumaric acid in beers, 310 (1995) 399

Enhanced chemiluminescence kinetic ELISA of dichlorprop methyl ester, 321 (1996) 213

Hydrogen peroxide assay by using enhanced chemiluminescence of the luminol-H<sub>2</sub>O<sub>2</sub>-horseradish peroxidase system: Comparative studies, 327 (1996) 161

A novel biosensor system for cyanide based on a chemiluminescence reaction, 329 (1996) 111

The determination of chlorogenic acid in cigarettes by inhibited chemiluminescence analysis, 351 (1997) 241

Chemiluminescence flow injection analysis of reducing agents based on the luminol reaction, 353 (1997) 345

Determination of sub-nanomolar levels of iron in seawater using flow injection with chemiluminescence detection, 361 (1998)

Flow injection analysis of tannic acid with inhibited chemiluminescent detection, 362 (1998) 151

Flow injection chemiluminescence determination of catecholamines with electrogenerated hypochlorite, 374 (1998) 105

Luminol electrochemiluminescence-based fibre optic biosensors for flow injection analysis of glucose and lactate in natural samples, 381 (1999) 1

Chemiluminescence of β-lactam antibiotics based on the luminol reaction, 389 (1999) 89

Semi-automated membrane based chemiluminescent immunosensor for flow injection analysis of okadaic acid in mussels, 398 (1999) 173

## Luminol chemiluminescence

Sequential injection determination of p-glucose by chemiluminescence using an open tubular immobilised enzyme reactor, 326 (1996) 1 Simultaneous flow-injection determination of iron(II) and total iron by micelle enhanced luminol chemiluminescence, 376 (1998) 247

On-line screening method for antioxidants by liquid chromatography with chemiluminescence detection, 383 (1999) 221

## Luminol-hydrogen peroxide system

Electroluminescent detection of enzymatically generated hydrogen peroxide, 327 (1996) 253

#### Lumogallion

Determination of trace aluminum in natural waters by flow-injection analysis with fluorescent detection of the lumogallion complex, 303 (1995) 211

## Lyoluminescence

Ruthenium(II) tris-(2,2'-bipyridine)-specific extrinsic lyoluminescences of x-ray irradiation colored and electrolytically colored alkali halides, 309 (1995) 197

X-ray irradiated sodium chloride as an excitation source for the sensitized terbium(III)-specific chemiluminescence of aromatic Tb(III) chelates in aqueous solutions, 347 (1997) 333

Luminol-specific extrinsic lyoluminescence of X-ray irradiated sodium chloride, 349 (1997) 1

Hydrated electron-induced chemiluminescence of thallium(I) ion, 382 (1999) 233

#### Lysine

Flow injection amperometric and chemiluminescence individual and simultaneous determination of lysine and glucose with immobilized lysine oxidase and glucose oxidase, 338 (1997) 140

Flow injection chemiluminescence determination of ornithine and sequential determination of ornithine and lysine by using immobilized lysine oxidase, 388 (1999) 339

## Lysine analysis

Potentiometric biosensor for lysine analysis based on a chemically immobilized lysine oxidase membrane, 371 (1998) 49

## Lysine oxidase

Flow injection chemiluminescence determination of ornithine and sequential determination of ornithine and lysine by using immobilized lysine oxidase, 388 (1999) 339

### Lysophosphatidylethanolamine

Negative ion liquid secondary ion mass spectrometry and tandem mass spectrometric analysis of the molecular species of aminophospholipids as 9-fluorenylmethyloxycarbonyl derivatives, 326 (1996) 127

## Lysophosphatidylserine

Negative ion liquid secondary ion mass spectrometry and tandem mass spectrometric analysis of the molecular species of aminophospholipids as 9-fluorenylmethyloxycarbonyl derivatives, 326 (1996) 127

### Lysozyme

Open tubular capillary electrochromatography with adsorbed stationary phase, 378 (1999) 73

## Lysyl endopeptidase

Intelligent peptide-mapping method for recombinant human tissuetype plasminogen activator by lysyl-endopeptidase digestion, 365 (1998) 241

# M

## M. tuberculosis

Sequence-specific electrochemical biosensing of M. tuberculosis DNA, 337 (1997) 41

#### MAL

Immunoaffinity column chromatography against forskolin using an anti-forskolin monoclonal antibody and its application, 335 (1996) 63

#### Mach-Zehnder sensor

New detection method for atrazine pesticides with the optical waveguide Mach-Zehnder immunosensor, 341 (1997) 171

## Macrocyclic compound

Hollow fiber based supported liquid membrane: a novel analytical system for trace metal analysis, 350 (1997) 183

## Macrocyclic ionophore

Quantitative extraction separation systems of alkali and alkaline earth metal ions using cryptands as ion-size selective masking reagents, 394 (1999) 317

## Macrocyclic ligands

A differential pulse polarographic study of bismuth<sup>III</sup> complexes with macrocyclic ligands 1,4,7,10-tetraazacyclododecane and 1,4,7,10-tetrakis (2-hydroxypropyl)-1,4,7,10-tetraazacyclododecane. An out-of-cell determination of stability constants of polarographically active and inactive bismuth complexes at fixed ligand to metal ratio and various pH values, 372 (1998) 323

## Macrocyclic materials

Evaluation of an immobilised macrocyclic material for on-line column preconcentration and separation of cadmium, copper and lead for electrothermal atomic absorption spectrometry, 392 (1999) 55

### Macrocyclic Schiff base

Liquid-liquid extraction of iron(III) and gallium(III) with macrocyclic Schiff bases containing bisphenol A subunits, 319 (1996)

## Macroelectrodes

Detection of amino acids at conducting electroactive polymer modified electrodes using flow injection analysis. Part I. Use of macroelectrodes, 339 (1997) 201

## Macromolecule

Design, synthesis and characterization of a novel fluorescent probe for nitric oxide (nitrogen monoxide), 365 (1998) 159

## Macromolecule complexation

Influence of adsorption on calibration curves in normal pulse polarography, 305 (1995) 273

### Macroporous cation exchanger

Isolation of polybutenylsuccinimide-type dispersants from multigrade lubricating oils by classical cation exchange chromatography, 339 (1997) 109

## Macroporous epoxy-imidazole complexing resin

Synthesis and efficiency of a spherical macroporous epoxy-imidazole complexing resin for preconcentrating trace noble metal ions, 354 (1997) 143

## Magnesium

Three pressurized mineralization procedures that permit subsequent flame atomic spectrometric determination of Ca, Fe, K, Mg and Zn in bovine blood plasma-containing cookies and in standard reference materials, 306 (1995) 139

Determination of sodium, potassium, calcium and magnesium cations by capillary electrophoresis compared with ion chromatography, 314 (1995) 67

Novel sensors for potassium, calcium and magnesium ions based on a silicon transducer as a light-addressable potentiometric sensor, 382 (1999) 131

## Magnesium alloy

Determination of lanthanides in magnesium alloys by ion chromatography, 333 (1996) 23

### Magnesium speciation

The study of magnesium speciation in serum by liquid chromatography and graphite furnace atomic absorption techniques, 358 (1998) 185

## Magnesium-selective electrodes

Comparison of different methods for determining the selectivity coefficient using a magnesium-selective electrode, 375 (1998) 211

Potentiometric response of magnesium-selective membrane electrode in the presence of nonionic surfactants, 382 (1999) 265 Ionophores, ligands and reactands, 400 (1999) 65

## Magnetic bead washer

Use of an immunomagnetic separation-fluorescent immunoassay (IMS-FIA) for rapid and high throughput analysis of environmental water samples, 376 (1998) 77

## Magnetic-polarization-resonance-synchronous-fluorimetry

Study on the magnetic-polarization-resonance-synchronous-fluorimetry and its application to simultaneous determination of polycyclic aromatic hydrocarbons, 367 (1998) 11

## Magnetite

Magnetic recovery of radium, lead and polonium from seawater samples after preconcentration on a magnetic adsorbent of manganese dioxide coated magnetite, 328 (1996) 53

### Magnolysin

Peptides as tools for studying propeptide and proprotein processing, 352 (1997) 155

## Main and trace element analysis

Critical discussion on the need for an efficient mineralization procedure for the analysis of plant material by atomic spectrometric methods, 358 (1998) 85

## Major-ash forming elements

Acidified subcritical water extraction of major ash-forming elements from coal, 395 (1999) 113

## Malachite Green

Determination of cadmium in fertilizers by flow-injection spectrophotometry, 308 (1995) 439

## Malaprade reaction

Fluorometric determination of periodate with thiamine and its application to the determination of ethylene glycol and glycerol, 359 (1998) 87

#### MALDI

Assaying neurotransmitters in and around single neurons with information-rich detectors, 400 (1999) 13

## MALDI mass spectrometry

Comparison of microscale cleaning procedures for (Glyco) proteins prior to positive ion matrix-assisted laser desorption ionization mass spectrometry, 372 (1998) 187

## MALDI-TOF/MS

Visualized single cell dynamics and analysis of molecular tricks, 400 (1999) 33

Derivatization of peptides and small proteins for improved identification and detection in capillary zone electrophoresis (CZE), 400 (1999) 181

## Maleimide

Sulfosuccinimidyl 4-(N-maleimidomethyl)-1-cyclohexane carboxylate as a bifunctional immobilization agent. Optimization of the coupling conditions, 361 (1998) 33

### Malonaldehyde

Kinetic behaviour of the malonaldehyde-thiobarbituric acid reaction. Kinetic-fluorimetric determination of malonaldehyde in human serum, 320 (1996) 125

### Maltol

Electrochemical study of the flavour enhancer maltol. Determination in foods by liquid chromatography with amperometric detection, 327 (1996) 65

## Mammalian cell cultivation

Flow-injection immunoassay using OPA derivatization, 374 (1998)

## Mammalian cells

A flow-injection (FI) mediated biosensor for on-line monitoring of lactate in mammalian cell culture, 351 (1997) 159

Mammalian cells as biomonitors of UV-exposure, 387 (1999) 281

### Mandarin essential oils

Chemometric analysis and extraction processes of mandarin essential oils, 312 (1995) 199

## Mandelic acid esterification

Monitoring of enzyme catalysed reactions by Fourier transform Raman spectrometry, 370 (1998) 191

## Manganese

Selective stopped-flow determination of manganese with luminol in the absence of hydrogen peroxide, 302 (1995) 275

Simultaneous multielement determination in complex matrices using frequency-modulated electrothermal atomic absorption spectrometry, 310 (1995) 181

Selective coprecipitation of colloidal manganese(IV) oxide, 315 (1995) 239

Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for nickel, cobalt and manganese determination by atomic absorption spectrometry, 317 (1995) 215

Determination of dissolved manganese(II) in coastal and estuarine waters by differential pulse cathodic stripping voltammetry, 344 (1997) 175

Complex formation of 2-(5-nitro-2-pyridylazo)-5-(N-propyl-N-sulfo-propylamino)phenol with lead, cadmium and manganese for their sensitive spectrophotometric detection in flow injection and ion chromatography systems, 345 (1997) 139

Determination of manganese in natural water and effluent streams using a solid-phase lead(IV) dioxide reactor in a flow-injection system, 350 (1997) 15

Electrothermal atomic absorption spectrometric determination of molybdenum, aluminium, chromium and manganese in milk, 356 (1997) 267

Investigation of a new reaction for the determination of microquantities of sulfite in some inorganic salts, 357 (1997) 239

Square-wave adsorptive stripping voltammetry at glassy carbon electrode for selective determination of manganese. Application to some industrial samples, 370 (1998) 239

Selective and sensitive determination of trace manganese in sea water by flow through technique using luminol-hydrogen peroxide chemiluminescence detection, 377 (1998) 125

Determination of trace amounts of manganese by β-cyclodextrin polymer solid phase spectrophotometry using 2-(5-bromo-2pyridylazo)-5-diethylaminophenol, 392 (1999) 247

Determination of manganese in steel after extraction of dimethyldistearylammonium permanganate, 393 (1999) 223

## Manganese complexes

Potentiometric study of the equilibria between triethylenetetraminehexaacetic acid and H(I), Mn(II), La(III) and Ga(III) in aqueous solution, 367 (1998) 261

## Manganese determination

Monosegmented flow system exploiting multicommutation applied to spectrophotometric determination of manganese in soybean digests, 386 (1999) 129

## Manganese dioxide

Magnetic recovery of radium, lead and polonium from seawater samples after preconcentration on a magnetic adsorbent of manganese dioxide coated magnetite, 328 (1996) 53

## Manganese in plants

Flow-injection spectrophotometric catalytic determination of manganese in plants exploiting the aerial oxidation of diphenyl carbazone, 366 (1998) 87

#### Mannan

Adsorptive cathodic stripping voltammetric determination of gold(-III) in the presence of yeast mannan, 385 (1999) 393

#### Mannich reaction

Syntheses of antigens conjugated with 3-methoxy-4-hydroxyphenylglycol by Mannich reaction for enzyme immunoassay, 365 (1998) 137

# Mannitol

Determination of ultra-trace impurities in semiconductor-grade water and chemicals by inductively coupled plasma mass spectrometry following a concentration step by boiling with mannitol, 377 (1998) 47

#### Manure

Determination of the aqua regia soluble content of rare earth elements in fertilizer, animal fodder phosphate and manure samples using inductively coupled plasma mass spectrometry, 373 (1998) 95

#### Margarine

Automatic determination of liposoluble vitamins in butter and margarine using Triton X-100 aqueous micellar solution by liquid chromatography with electrochemical detection, 315 (1995) 201

## Marine environment

Large-volume injection in gas chromatography-ion trap tandem mass spectrometry for the determination of pesticides in the marine environment at the low ng/l level, 353 (1997) 153

#### Marine monitoring

Automated pH-ISFET measurements under hydrostatic pressure for marine monitoring application, 356 (1997) 205

#### Marine organisms

Speciation of arsenobetaine in marine organisms using a selective leaching/digestion procedure and hydride generation atomic absorption spectrometry, 337 (1997) 323

#### Marine particulates

Scanning electron microscopy with energy-dispersive electron probe X-ray analysis investigation of a sequential extraction scheme for copper, chromium, iron and aluminium speciation in marine suspended particulate matter, 306 (1995) 149

Evaluation of the acetate buffer attack of a sequential extraction scheme for marine particulate metal speciation studies by scanning electron microscopy with energy dispersive X-ray analysis, 360 (1998) 27

## Marine sediment

Reproducibility testing of a sequential extraction scheme for the determination of trace metal speciation in a marine reference sediment by inductively coupled plasma-mass spectrometry, 342 (1997) 91

Combined experimental design and information theory for the optimization of supercritical fluid extraction of organic priority pollutants from sediment, 351 (1997) 377

#### Marine tissues

Low volume microwave digestion for the determination of selenium in marine biological tissues by graphite furnace atomic absorption spectroscopy, 350 (1997) 287

Comparison of AFS and ICP-MS detection coupled with gas chromatography for the determination of methylmercury in marine samples, 390 (1999) 245

#### Marker residue of albendazole

Determination of the marker residue of albendazole in milk using ion-pair liquid chromatography and fluorescence detection, 345 (1997) 111

#### MASE

Effects of parameters on microwave assisted extraction of triazines from soil: evaluation of an optimisation trajectory, 348 (1997) 247

# Masking of V(IV)

The determination of vanadium(V) in the presence of vanadium(IV) using 4-(2-pyridylazo)resorcinol in a flow-injection manifold, 329 (1996) 275

#### Mass balance

Supercritical fluid extraction of cobalt with fluorinated and nonfluorinated β-diketones, 346 (1997) 73

## Mass sensitivity

Mass sensitivity of the tube acoustic wave sensor in the extensional mode, 336 (1996) 13

## Mass spectra

Supersonic jet multiphoton ionization mass spectrometry using nanosecond and femtosecond pulse lasers, 343 (1997) 129

# Mass spectrometry

Determination of the oxygen-18 and deuterium content of fruit and vegetable juice water An European inter-laboratory comparison study, 302 (1995) 29

Thermospray and electrospray mass spectrometry of flavocoenzymes. Analysis of riboflavin sulphates from sugar beet, 302 (1995) 215

Notched broad-band excitation of ions in a bench-top ion trap mass spectrometer, 303 (1995) 149

Qualitative and quantitative evaluation of deconvolution for ion mobility spectrometry, 303 (1995) 163

Determination of didealkylatrazine in water by graphitized carbon black extraction followed by gas chromatography-high resolution mass spectrometry, 304 (1995) 67

Differential electrochemical mass spectrometry study of the electroless copper plating process using a thin-layer flow-through cell, 305 (1995) 227

Enhanced selectivity in ion mobility spectrometry analysis of complex mixtures by alternate reagent gas chemistry, 306 (1995) 21

- Determination of carbohydrate heterogeneity in the humanised antibody CAMPATH 1H by liquid chromatography and matrix-assisted laser desorption ionisation mass spectrometry, 306 (1995) 43
- Laser-induced thermal desorption with Fourier transform mass spectrometry for the time resolved analysis of catalyst and biomedical implant model surface molecular composition, 307 (1995) 321
- Reactions of temazepam in acidic aqueous solution via oxygen-18labeled product analysis by mass spectrometry, 309 (1995) 307
- Applying moving median digital filter to mass spectrometry and potentiometric titration, 310 (1995) 281
- Trace level analysis of volatile and semi-volatile organic compounds in water using a membrane/jet separator interfaced to an ion trap mass spectrometer, 310 (1995) 387
- Variable alignment of high resolution data by cluster analysis, 310 (1995) 485
- Determination of lead isotopic ratios in Greenland and Antarctic snow and ice at picogram per gram concentrations, 311 (1995) 141
- Mass spectrometric analysis of additives in polymer extracts by desorption chemical ionization and collisional induced dissociation with B/E linked scanning, 311 (1995) 153
- Rapid and quantitative analysis of metabolites in fermentor broths using pyrolysis mass spectrometry with supervised learning: application to the screening of Penicillium chrysogenum fermentations for the overproduction of penicillins, 313 (1995) 25
- Membrane interface for the direct coupling of pyrolysis and mass spectrometry, 313 (1995) 237
- Fast screening of contaminated soil samples using thermal desorption mass spectrometry, 315 (1995) 159
- On-line monitoring with feedback control of bioreactors using a high ethanol tolerance yeast by membrane introduction mass spectrometry, 316 (1995) 269
- Vacuum fusion-mass spectrometric determination of H, N and O in U<sub>3</sub>Si fuel using the standard addition technique, 316 (1995) 337
- Determination of pyrethroid insecticides by ion trap GC-MS-MS, 317 (1995) 137
- On-line sample handling strategies for the trace-level determination of pesticides and their degradation products in environmental waters, 318 (1995) 1
- The resolution of mixtures using data from automated probe mass spectrometry, 318 (1995) 43
- On-line determination of  $\delta^{18}O$  values of organic substances, 319 (1996) 159
- Negative ion liquid secondary ion mass spectrometry and tandem mass spectrometric analysis of the molecular species of aminophospholipids as 9-fluorenylmethyloxycarbonyl derivatives, 326 (1996) 127
- Characterization of a membrane interface designed for analytical scale sample introduction into a mass spectrometer, 327 (1996)
- Speciation of metals associated with natural water components by on-line membrane fractionation combined with inductively coupled plasma atomic emission and mass spectrometries, 327 (1996) 167

- Determination of trace impurities in tantalum by inductively coupled plasma mass spectrometry after removal of the matrix by liquid-liquid extraction, 329 (1996) 153
- Separation of osmium from geological materials by solvent extraction for analysis by thermal ionisation mass spectrometry, 332 (1996) 269
- Development of a sensitive radioimmunoassay for the potential antimigraine drug GR151004: including cross-validation to liquid chromatography-mass spectrometry-mass spectrometry and application to pharmacokinetic studies, 334 (1996) 225
- The identification of an unusual volatile component in processed tobacco by gas chromatography with mass spectrometry and atomic emission detection, 335 (1996) 253
- Quality control of paints: Pyrolysis-mass spectrometry and chemometrics, 336 (1996) 201
- Evaluation of gas chromatography with a flame photometric detector based on quartz surface-induced emission for determining the speciation of inorganic and methylgermanium compounds, 337 (1997) 83
- A study of the applicability of various ionization methods and tandem mass spectrometry in the analyses of triphenyltin compounds, 340 (1997) 5
- Determination of the carbon-13 content of sugars and pulp from fruit juices by isotope-ratio mass spectrometry (internal reference method) A European interlaboratory comparison, 340 (1997) 21
- Determination of small carboxylic acids by ion exclusion chromatography with electrospray mass spectrometry, 341 (1997) 205
- Chemical characterization by pyrolysis/gas chromatography/mass spectrometry of acid-precipitable polymeric lignin (APPL) from wheat straw transformed by selected streptomyces strains, 345 (1997) 121
- Supercritical fluid extraction combined on-line with cold-trap gas chromatography/mass spectrometry, 346 (1997) 81
- Determination of bisphenol A (BPA) in water by gas chromatography-mass spectrometry, 346 (1997) 87
- Characterization of supported and unsupported transition metal compounds by liquid secondary ion mass spectrometry, 346 (1997) 223
- Measurement of bismuth at pg g<sup>-1</sup> concentrations in snow and ice samples by thermal ionisation mass spectrometry, 347 (1997) 351
- Sample preparation and reversed phase-high performance liquid chromatography analysis of food-derived peptides, 352 (1997) 119
- Large-volume injection in gas chromatography-ion trap tandem mass spectrometry for the determination of pesticides in the marine environment at the low ng/l level, 353 (1997) 153
- Evaluation of ticlopidine in human serum and plaque by liquid chromatography/atmospheric pressure chemical ionization mass spectrometry, 354 (1997) 87
- Microstructure of alkoxy and alkyl substituted isocyanate copolymers determined by desorption chemical ionization mass spectrometry, 356 (1997) 149
- A simple and sensitive method for the determination of volatile halogenated organic compounds in sea water in the amol I<sup>-1</sup> to pmol I<sup>-1</sup> range, 357 (1997) 197

- Development of a method for the systematic use of bilinear multivariate calibration methods for the correction of interferences in inductively coupled plasma-mass spectrometry, 358 (1998) 205
- Accurate determination of <sup>87</sup>Rb/<sup>86</sup>Sr and <sup>147</sup>Sm/<sup>144</sup>Nd ratios by inductively-coupled-plasma mass spectrometry in isotope geoscience: an alternative to isotope dilution analysis, 358 (1998) 227
- Procedures leading to primary structure determination of proteins in complex mixtures by gel electrophoresis and modern micro-scale analyses, 372 (1998) 21
- Confirmation and method development for dechlorinated atrazine from reductive dehalogenation of atrazine with Fe<sup>0</sup>, 373 (1998) 153
- Soil column extraction followed by liquid chromatography and electrospray ionization mass spectrometry for the efficient determination of aryloxyphenoxypropionic herbicides in soil samples at ng g<sup>-1</sup> levels, 375 (1998) 107
- Determination of bromate at parts-per-trillion levels by gas chromatography-mass spectrometry with negative chemical ionization, 377 (1998) 53
- Analytical and preparative capillary zone electrophoresis of opioid peptides, 383 (1999) 79
- The automatic visualisation of carry-over in high-throughput flow injection analysis mass spectrometry, 390 (1999) 175
- Electrospray ionization mass spectrometry of metal complexes. Gas phase formation of a binuclear copper(II)-5-Br-PADAP complex, 390 (1999) 193
- Applicability of fast-atom bombardment mass spectrometry to the characterization of fulvic acid, 392 (1999) 319
- Time-of-flight secondary ion mass spectrometry of industrial materials, 393 (1999) 201
- Sorting measurement queues to speed up the flow injection analysis mass spectrometry of combinatorial chemistry syntheses, 394 (1999) 33
- Elemental analysis of powders by glow discharge mass spectrometry, 395 (1999) 165
- Affinity liquid membrane introduction mass spectrometry, 395 (1999) 239
- Assaying neurotransmitters in and around single neurons with information-rich detectors, 400 (1999) 13

## Mass spectrometry analysis

Strategies for analysis of electrophoretically separated proteins and peptides, 383 (1999) 27

## Mass spectroscopy

Visualized single cell dynamics and analysis of molecular tricks, 400 (1999) 33

#### Mass transfer

Study of mass transfer in on-line analytical parallel-plate dialysers in series in flow injection systems, 308 (1995) 222

## Mass transport

Ultramicroelectrodes in kinetic investigations supported by simulation. A review with some additional examples, 305 (1995) 96

#### Mast cells

Determination of histamine release from mast cells using a histamine-sensitive membrane electrode, 396 (1999) 189

#### Matched potential method

Comparison of different methods for determining the selectivity coefficient using a magnesium-selective electrode, 375 (1998) 211

## Material analysis

Pentachlorophenol detection at the source of emission . Sampling equipment and immunochemical analysis, 359 (1998) 321

## Mathematical model

- An integrated design strategy for flow-injection analysis based on the coupling of mathematical modelling and optimization algorithms, 310 (1995) 289
- Mathematical model for the migration of plasticisers from food contact materials into solid food, 347 (1997) 249
- Methods and issues in microdialysis calibration, 379 (1999) 337

## Mathematical modelling

- Mathematical modelling of flow-injection systems, 308 (1995) 36
- Mathematical modelling of potentiometric stripping analysis in mechanically mixed solutions, 329 (1996) 1
- Simultaneous determination of iron(II) and iron(III) by flow injection analysis A mathematical simulation of the detector response, 348 (1997) 101
- Mathematical modelling of potentiometric stripping analysis. Chemical stripping in quiet solutions, 377 (1998) 13
- Study of the extraction of 1-(2'-pyridylazo)-2-naphthol from ethanol-water solutions into Nafion membranes, 392 (1999) 201

#### Matrix

Applicability of fast-atom bombardment mass spectrometry to the characterization of fulvic acid, 392 (1999) 319

#### Matrix effects

- Comparison of various peak evaluation techniques for limited and extended dynamic ranges in flow injection systems, 364 (1998)
- Determination of trace impurities in high-purity aluminium oxide by high resolution inductively coupled plasma mass spectrometry, 369 (1998) 79
- Qualitative and quantitative aspects of the application of genetic algorithm-based variable selection in polarography and stripping voltammetry, 378 (1999) 245
- Matrix effect modelling in multivariate determination of priority pollutant chlorophenols in urine samples, 381 (1999) 93
- Use of flow-injection sample-to-standard addition methods for quantification of metals leached by selective chemical extraction from sewage sludge, 381 (1999) 297

## Matrix elimination

Behaviour of matrix cations (Ca<sup>2+</sup>, K<sup>+</sup>, Mg<sup>2+</sup> and Na<sup>+</sup>) during online preconcentration and atomic spectrometric detection of trace metals in natural waters, 351 (1997) 311

## Matrix isopotential synchronous fluorescence spectrometry

Direct determination of quinidine in urine, 317 (1995) 359

#### Matrix removal

A micro-scale mercury cathode electrolysis procedure for on-line flow injection inductively coupled plasma mass spectrometry trace elements analysis in steel samples, 389 (1999) 247

#### Matrix separation

Determination of trace impurities in tantalum by inductively coupled plasma mass spectrometry after removal of the matrix by liquid-liquid extraction, 329 (1996) 153

Preconcentration and matrix separation of precious metals in geological and related materials using metalfix-chelamine resin prior to inductively coupled plasma mass spectrometry, 340 (1997) 31

## Matrix-assisted laser desorption ionization

Post-source decay production studies of aniline and methylaniline adducts of deoxyguanosine, 397 (1999) 257

#### Mass

Durability and cleaning of matt surface ceramic colour standards, 380 (1999) 413

## Maximum common substructure

Joined knowledge- and signal processing for infrared spectrum interpretation, 393 (1999) 193

## Maximum entropy deconvolution

Maximum entropy chromatogram reconstruction, 371 (1998) 1

#### Maximum likelihood

Effects of parameters on microwave assisted extraction of triazines from soil: evaluation of an optimisation trajectory, 348 (1997) 247

Applications of maximum likelihood principal component analysis: incomplete data sets and calibration transfer, 350 (1997) 341

#### Mazindol

Studies on the adsorptive behaviour of mazindol and its adsorptive stripping voltammetry, 358 (1998) 297

# MCA determination

Development of a new photopolymerizable membrane for monochloroacetate sensitive potentiometric sensors, 386 (1999) 13

## m-Cresol

A novel method for the determination of vitamin C in natural orange juices by electrochemical monitoring of dediazoniation of 3-methylbenzenediazonium tetrafluoroborate, 385 (1999) 373

#### MDI

Biomarkers of toluene diisocyanate and thermal degradation products of polyurethane, with special reference to the sample preparation, 333 (1996) 277

## Measurement noise

Monitoring of randomly varying chemical processes by correlation chromatography, 373 (1998) 175

## Measurement range

A new evaluation technique for FIA measurements: projective reference evaluation, 348 (1997) 161

## Measurement sequence

Sorting measurement queues to speed up the flow injection analysis mass spectrometry of combinatorial chemistry syntheses, 394 (1999) 33

## Measurement uncertainty

Inter-laboratory, time, and fitness-for-purpose aspects of effective validation, 391 (1999) 159

#### Meat

Estimation of lactate in meat extracts by screen-printed sensors, 386 (1999) 7

#### Meat freshness

Direct evaluation of meat spoilage and the progress of aging using biosensors, 320 (1996) 269

#### Mebendazole

Determination of mebendazole in urine by cathodic stripping voltammetry, 331 (1996) 111

## **MECA** application

Application of molecular emission cavity analysis to the determination of tin in various samples based on hydride generation, 333 (1996) 295

## Mechanism of catalyzed reaction

Kinetic-mechanistic study of the chlorpromazine-hydrogen peroxide reaction catalyzed by molybdenum(VI) and tungsten(VI), and their differential determination, 349 (1997) 43

# Medial iliac lymph-node cells

Preparation of a specific monoclonal antibody against 2'-deoxycytidine, 365 (1998) 121

#### Mediated electron transfer

Amperometric detection of phenols using peroxidase-modified graphite electrodes, 347 (1997) 51

#### Mediator

Kinetics and performance of a mediated biosensor for hypoxanthine using deflavo xanthine oxidase, 319 (1996) 325

Electrocatalysis of NADH oxidation with electropolymerized films of nile blue A, 343 (1997) 69

#### Mediatorless

Fabrication of directly polymerized 4-vinylpyridine onto a pencil 2B graphite paste electrode for glucose monitoring, 354 (1997) 351

## Medicine analysis

Use of column with modified silica for interfering retention in a FIA spectrophotometric method for direct determination of vitamin C in medicine, 366 (1998) 11

## Medium effect

Room-temperature phosphorescence of dansyl chloride solution in the absence of protective medium and its medium effect, 341 (1997) 241

# Medoated enzyme electrode

Purification and sensor applications of an oxygen insensitive, thermophilic diaphorase, 345 (1997) 17

## Medronic acid

Polarographic determination of Sn(II) in samples containing Sn(IV) such as in 99m-Technetium radiopharmaceutical kits, 332 (1996) 67

#### MEKC

A novel strategy for systematic optimization of micellar electrokinetic chromatography separations, 342 (1997) 133

Micellar electrokinetic capillary chromatography analysis of watersoluble vitamins, 396 (1999) 55

## Melatonin

Sensitive assay for melatonin in human serum by liquid chromatography, 316 (1995) 377

## Melbourne

Multivariate data analysis of key pollutants in sewage samples: a case study, 393 (1999) 181

#### Meldola's Blue

A reagentless, disposable biosensor for lactic acid based on a screenprinted carbon electrode containing Meldola's Blue and coated with lactate dehydrogenase, NAD\* and cellulose acetate, 304 (1995) 17

An amperometric Meldola Blue-mediated sensor high sensitive to hydrogen peroxide based on immobilization of horseradish peroxidase in a composite membrane of regenerated silk fibroin and poly(vinyl alcohol), 329 (1996) 97

Amperometric glyceride biosensor, 330 (1996) 159

## Melting point

Assessment of the intermediate phase in milk fat by low-resolution nuclear magnetic resonance, 311 (1995) 217

#### Membrane

Selective optical response to oxygen of membranes based on immobilized cobalt(II) porphyrins, 338 (1997) 119

A study of the permeability properties of surfactant modified poly(vinyl chloride) membranes, 350 (1997) 67

Molecularly imprinted polymeric membranes involving tetrapeptide EQKL derivatives as chiral-recognition sites toward amino acids, 365 (1998) 59

Hydrogen sulfite optical sensor based on a lipophilic guanidinium ionophore, 388 (1999) 63

# Membrane cell

Preconcentration with membrane cell and adsorptive polarographic determination of cyanides in air, 382 (1999) 283

# Membrane charge

Correlation between the electrical charge properties of polymeric membranes and the characteristics of ion field effect transistors or penicillinase based enzymatic field effect transistors, 331 (1996) 217

## Membrane desolvator

Membrane desolvation for the analysis of organic solutions and liquid chromatographic samples with low power helium microwave induced plasma atomic emission detection, 390 (1999) 217

## Membrane electrodes

New cocaine-selective membrane electrode, 316 (1995) 371

Determination of chlorine and dissolved oxygen in waters and of ascorbic acid in pharmaceuticals by iodimetric potentiometric titration using a plasticized poly(vinyl chloride) membrane electrode, 333 (1996) 107

Paraquat sensors containing membrane components of high lipophilicities, 338 (1997) 89

#### Membrane extraction

Membrane extraction-preconcentration cell coupled on-line to flowinjection and liquid chromatographic systems. Determination of triazines in oils, 304 (1995) 323

Determination of triazines in surface waters by membrane separation coupled on-line to a flow-injection system and partial least squares regression, 321 (1996) 147

Study of the extraction of 1-(2'-pyridylazo)-2-naphthol from ethanol-water solutions into Nafion "membranes, 392 (1999) 201

#### Membrane filtration

Determination of molybdenum in sea water by solid-phase spectrophotometry, 304 (1995) 243

Selective coprecipitation of colloidal manganese(IV) oxide, 315 (1995) 239

## Membrane inlet ion mobility spectrometry

Membrane inlet ion mobility spectrometry for on-line measurement of ethanol in beer and in yeast fermentation, 309 (1995) 317

## Membrane inlet mass spectrometry

Development of a membrane inlet mass spectrometric method for analysis of air samples, 349 (1997) 359

## Membrane interface

Characterization of a membrane interface designed for analytical scale sample introduction into a mass spectrometer, 327 (1996) 1

# Membrane introduction mass spectrometry

Enhancing the performance of membrane introduction mass spectrometry by organic carrier and liquid chromatographic separation, 337 (1997) 165

Affinity liquid membrane introduction mass spectrometry, 395 (1999) 239

# Membrane mass spectrometry

On-line analysis of sample atmospheres using membrane inlet mass spectrometry as a method of monitoring vegetable respiration rate, 394 (1999) 43

## Membrane materials

Polysiloxane based CHEMFETs for selective detection of Ca<sup>2+</sup> ions, 357 (1997) 225

#### Membrane optimization

Determination of formal complex formation constants of various Pb<sup>2+</sup> ionophores in the sensor membrane phase, 395 (1999) 41

# Membrane potential

Simultaneous analysis of membrane potential and calcium mobilization in a pancreatic B-cell line MIN6 by use of a double-probe imaging microscope-system, 365 (1998) 3

## Membrane process

Molecular imprint membranes of polyacrylonitrile copolymers with different acrylic acid segments, 365 (1998) 81

# Membrane sampler

The determination of aqueous ammonia by ion mobility spectrometry, 311 (1995) 77

#### Membrane separation

Flow analysis with membrane separation and time based sampling for ethanol determination in beer and wine, 305 (1995) 241

## Membrane transport

Silver(I) ion-selective transport across polymer inclusion membranes containing new pyridino- and bipyridino-podands, 373 (1998) 167

## Membrane/jet separator

Trace level analysis of volatile and semi-volatile organic compounds in water using a membrane/jet separator interfaced to an ion trap mass spectrometer, 310 (1995) 387

#### Membrane-immobilized enzyme reactor

Coupling of membrane-immobilized enzyme reaction and heteropoly acid-luminol chemiluminescence reaction for the determination of adenosine-5'-triphosphate, 349 (1997) 159

# Membrane-microelectrode

Membrane-assembly of carbon microelectrodes for the electrochemical study of redox proteins, 353 (1997) 53

#### Membranes

β-Cyclodextrin cation exchange polymer membrane for improved second-generation glucose biosensors, 306 (1995) 201

Efficiency and response studies on gas diffusion manifolds in flowinjection systems, 308 (1995) 206

Membrane interface for the direct coupling of pyrolysis and mass spectrometry, 313 (1995) 237

Asymmetric cellulose acetate membrane-based carbonate- and chloride-selective electrodes, 315 (1995) 311

Regenerated silk fibroin membrane as immobilization matrix for peroxidase and fabrication of a sensor for hydrogen peroxide utilizing methylene blue as electron shuttle, 316 (1995) 65

Comparison of recovery and delivery in vitro for calibration of microdialysis probes, 316 (1995) 403

Glucose-sensitive ion-sensitive field-effect transistor-based biosensor with additional positively charged membrane Dynamic range extension and reduction of buffer concentration influence on the sensor response, 322 (1996) 77

Diffusion restricting outer membranes for greatly extended linearity measurements with glucose oxidase enzyme electrodes, 333 (1996) 223

Dipicrylamine-modified triacetylcellulose membrane for optical pH and potassium ion measurement, 335 (1996) 227 Blood compatibility and extended linearity of lactate enzyme electrode using poly(vinyl chloride) outer membranes, 353 (1997) 281

Membranes containing new large size calixarenes on semiconductor substrates for chemical microsensors, 354 (1997) 283

Optical sensor for high pH values, 367 (1998) 167

Selective recognition of atrazine by molecularly imprinted polymer membranes. Development of conductometric sensor for herbicides detection, 392 (1999) 105

#### Menadione sodium bisulfite

Detection of menadione sodium bisulfite (vitamin K<sub>3</sub>) by reversedphase high performance liquid chromatography with series dualelectrode amperometric detector, 338 (1997) 57

Study on sensitized photochemical fluorescence of menadione sodium bisulfite and its application in pharmaceutics analysis, 343 (1997) 109

## Mercaptans

A coulometer for determination of residual sulfite following the dechlorination of water, 332 (1996) 155

#### Mercaptoacetic acid

Solid electrodes from refractory powder materials prepared for electroanalytical purposes by a novel method, 364 (1998) 181

#### 2-Mercaptobenzothiazole

2-Mercaptobenzothiazole clay as matrix for sorption and preconcentration of some heavy metals from aqueous solution, 306 (1995) 167

## 6-Mercaptohexanol

Self-assembled monolayers and enzyme electrodes: progress, problems and prospects, 307 (1995) 277

## 3-Mercaptopropanoic acid

Amperometric determination of nitrite based on reaction with 3mercaptopropanoic acid, 382 (1999) 189

# Mercaptopropylmethyl polysiloxane

Synthesis and properties of mercaptosilicone modified by Ni(II) and Co(II) as stationary phases for capillary complexation gas chromatography, 377 (1998) 61

## 11-Mercaptoundecanol

Self-assembled monolayers and enzyme electrodes: progress, problems and prospects, 307 (1995) 277

# Mercury

Optimized arsenic, selenium and mercury determinations in aqueous solutions by energy dispersive x-ray fluorescence after preconcentration onto zirconium-loaded activated charcoal, 302 (1995) 89

Fluorimetric determination of mercury with a water-soluble porphyrin and porphyrin-doped sol-gel films, 304 (1995) 107

Use of arylidenerhodanines for the determination of Cu(II), Hg(II) and CN<sup>-</sup>, 307 (1995) 127

Rapid determination of mercury in environmental materials using on-line microwave digestion and atomic fluorescence spectrometry, 308 (1995) 364 Determination of mercury by open circuit adsorption stripping voltammetry on a platinum disk electrode, 319 (1996) 25

Efficient quenching of the fluorescence of binaphthyl-based amphiphiles by mercury(II) complexes, 320 (1996) 115

Determination of mercury in saliva with a flow-injection system, 320 (1996) 171

Continuous microwave assisted pervaporation/atomic fluorescence detection: An approach for speciation in solid samples, 324 (1996) 69

Using the electrochemical quartz crystal microbalance as stripping detector. Application to trace mercury analysis, 329 (1996) 253

Mercury thread electrode in a flow cell, 332 (1996) 165

Simultaneous cathodic stripping voltammetric determination of mercury, cobalt, nickel and palladium by mixed binder carbon paste electrode containing dimethylglyoxime, 333 (1996) 119

Determination of the mercury complexation capacity of natural waters by anodic stripping voltammetry, 350 (1997) 129

Determination of salmon calcitonin by square wave adsorptive stripping voltammetry, 351 (1997) 65

Determination of Hg and Bi by electrothermal vaporization inductively coupled plasma mass spectrometry using vapor generation with in situ preconcentration in a platinum-coated graphite furnace, 353 (1997) 173

Speciation of Cu, Pb, Cd and Hg in waters of the Oporto coast in Portugal, using pre-concentration in a Chelamine resin column, 353 (1997) 189

Sequential injection analysis system for determination of mercury by cold-vapor atomic absorption spectroscopy, 355 (1997) 203

A time-based flow injection-cold vapor-atomic absorption spectrometry system with on-line microwave sample pre-treatment for the determination of inorganic and total mercury in urine, 369 (1998) 57

Simultaneous determination of trace amounts of nickel, copper and mercury by liquid chromatography coupled with flow-injection on-line derivatization and preconcentration, 369 (1998) 215

Determination of inorganic and organic mercury compounds by capillary gas chromatography coupled with atomic absorption spectrometry after preconcentration on dithizone-anchored poly(ethylene glycol dimethacrylate-hydroxyethylmethacrylate) microbeads, 371 (1998) 177

Solid sampling electrothermal vaporization inductively coupled plasma mass spectrometry for the direct determination of Hg in sludge samples, 383 (1999) 253

Determination of mercury by cold vapour atomic absorption spectrometry with derivative signal processing, 395 (1999) 173

Hot-wire stripping potentiometric measurements of trace mercury, 396 (1999) 33

Rapid acid leaching and slurry sampling procedures for the determination of methyl-mercury and total mercury in human hair by electrothermal atomic absorption spectrometry, 398 (1999) 263

## Mercury determination

Stripping voltammetric determination of mercury at modified solid electrodes. I. Development of the modified electrodes, 371 (1998) 145 Stripping voltammetric determination of mercury at modified solid electrodes. Determination of mercury traces using PDC/Au(III) modified electrodes, 396 (1999) 195

#### Mercury drop electrode

Application of stripping voltammetry at a static mercury drop electrode for the determination of aluminium and iron in Portland cement, 353 (1997) 313

# Mercury electrode

Adsorptive potentiometric stripping analysis of nucleic acids at mercury electrodes, 349 (1997) 77

Cathodic stripping voltammetry of thiosulphate at toxic concentrations, 386 (1999) 221

# Mercury electrode modified with mitomycin C

Voltammetric determination of mitomycin C in the presence of other anti-cancer drugs and in urine, 358 (1998) 45

## Mercury film

Influence of Triton X-100 in stripping potentiometry, 333 (1996)

Square-wave anodic stripping voltammetry of Zn(II) as a method for probing instabilities at a glassy carbon mercury film microelectrode, 357 (1997) 33

Limitations of the use of the electrochemical quartz crystal microbalance in stripping analysis of lead(II) and cadmium(II) on a quartz crystal platinum electrode with a thin mercury film, 368 (1998) 191

## Mercury film electrodes

Anodic stripping voltammetry of trace metals by batch injection analysis, 322 (1996) 151

Mercury nucleation on glassy carbon electrodes, 346 (1997) 157Rapid and simultaneous analysis of trace metals (Cu, Pb and Cd) in seawater by potentiometric stripping analysis, 351 (1997) 83

Simultaneous determination of mixtures of metal ions by complexometric titration and multivariate calibration, 354 (1997) 233

Anodic stripping voltammetry of lead and cadmium using a mercury film electrode and thiocyanate, 385 (1999) 273

## Mercury film modified electrode

Cathodic stripping voltammetric determination of tellurium(IV) at a Nafion/8-quinolinol mercury film modified electrode, 358 (1998) 285

# Mercury microelectrodes

Anodic characterization of mercury microelectrodes for determinations of anions in real samples, 340 (1997) 77

## Mercury organic compounds

Response mechanism of anion-selective electrodes based on mercury organic compounds as ionophores, 327 (1996) 17

#### Mercury salt

Indirect cathodic-stripping voltammetric determination of ceftazidime as a mercury salt, 367 (1998) 255

## Mercury thin-film electrode

An inexpensive and renewable pencil electrode for use in field-based stripping voltammetry, 345 (1997) 67

## Mercury traces

Voltammetric determination of trace mercury in chloride media at glassy carbon electrodes modified with polycationic ionomers, 305 (1995) 74

#### Mercury(II)

Solid phase extraction and determination of ultra trace amounts of mercury(II) using octadecyl silica membrane disks modified by hexathia-18-crown-6-tetraone and cold vapour atomic absorption spectrometry, 355 (1997) 69

Visual determination of mercury(II) using horseradish peroxidase immobilized on polyurethane foam, 392 (1999) 151

Selective solid phase extraction of mercury(II) by silica gel-immobilized-dithiocarbamate derivatives, 398 (1999) 297

## Mercury-plated iridium-based microelectrode arrays

Mercury-plated iridium-based microelectrode arrays for trace metals detection by voltammetry: optimum conditions and reliability, 329 (1996) 203

#### Merging zones

Flow injection immunotitration: extended working range for inhibition type immunodetection, 399 (1999) 275

## Merocyanine 540

Interaction of merocyanine 540 with cations of physiological solutions, 303 (1995) 79

#### Mesoporous silica

Voltammetric reduction of mercury(II), silver(I), lead(II) and copper(II) ions adsorbed onto a new form of mesoporous silica, 396 (1999) 203

## Metabolic microscope

Diffuse reflectance absorbance spectroscopy taking in chemometrics (DRASTIC). A hyperspectral FT-IR-based approach to rapid screening for metabolite overproduction, 348 (1997) 273

## Metabolism

Methods and issues in microdialysis calibration, 379 (1999) 337

# Metabolites

An enzyme immunoassay for mutagenic metabolites of the herbicide alachlor, 376 (1998) 103

Use of immunoassays for biomonitoring of herbicide metabolites in urine, 376 (1998) 119

Determination of monoamine transmitters and their metabolites by capillary electrophoresis with electrochemical detection, 382 (1999) 33

# Metal binding

Size fractionation of humic substances: Effect on protonation and metal binding properties, 334 (1996) 27

## Metal binding peptides

Determination of phytochelatins by cathodic stripping voltammetry in the presence of copper(II), 319 (1996) 13

## Metal buffer solution

Effect of dissolved oxygen on the response of Cu(II) ion-selective electrodes in metal buffer solutions, 395 (1999) 53

#### Metal chelates

Supercritical fluid extraction of mercury(II) ion via in situ chelation and pre-formed mercury complexes from different matrices, 379 (1999) 1

Liquid chromatography of metal chelates. Chromatographic studies of homologous dialkyldithiocarbamates, 395 (1999) 101

#### Metal chelators

Immunoassays for metal ions, 376 (1998) 13

## Metal chlorocomplexes

A new approach for compensating concentration gradients in flow analysis, 331 (1996) 17

# Metal complexes

Formation constant calculation for non-labile complexes based on a labile part of the metal-ligand system. A differential pulse polarographic study at fixed ligand to metal ratio and varied pH: application to polarographically inactive complexes, 319 (1996) 39

An optosensor based on the fluorescence of metal complexes adsorbed on Chelex 100, 325 (1996) 201

Selective detection of nitrogen and oxygen containing volatile organic compounds: use of metal-modified polysiloxanes as sensor coatings, 346 (1997) 327

Application of the Kamlet and Taft model in solvent extraction chemistry of metals, 374 (1998) 137

Iminoketonate complexes of Cu(II) chemically bonded to silica in gas chromatography, 378 (1999) 101

Metal ion interferences in reverse polarity capillary zone electrophoretic analysis of Hanford Defense Waste for ethylenediaminetetraacetic acid (EDTA) and n-hydroxyethylethylenediaminetriacetic acid (HEDTA), 396 (1999) 105

## Metal complexing capacity

Simulation and fitting of anodic stripping voltammetry data for determination of the metal complexing capacity, 351 (1997) 73

#### Metal coordination

Metal ion mediated recognition in molecularly imprinted polymers, 335 (1996) 71

## Metal cyanide complexes

Metal cyanide control in hydrometallurgical processing of gold ores by multivariate calibration procedures, 353 (1997) 123

## Metal dibenzyldithiocarbamates

Hydrophobic salt-induced phase-separation and extraction for sample preparation in chromatographic determination of heavy metal ions as dibenzyldithiocarbamates, 356 (1997) 135

#### Metal electrodes

Pulsed electrochemical detection of thiocompounds following microchromatographic separations, 307 (1995) 301

#### Metal ior

Voltammetric reduction of mercury(II), silver(I), lead(II) and copper(II) ions adsorbed onto a new form of mesoporous silica, 396 (1999) 203

# Metal ion binding prediction

Computational scheme for the prediction of metal ion binding by a soil fulvic acid, 302 (1995) 309

#### Metal ion enrichment

Hollow fiber cartridges for removal of particulate matter from natural waters prior to matrix isolation and trace metal enrichment using an 8-quinolinol chelating ion exchanger in a flow system, 316 (1995) 305

## Metal ion hydrolysis

A computer program GEZ for determination of the equivalence point of the acid-base titration and E<sub>0</sub> of the glass electrode, 331 (1996) 23

## Metal ion mixtures

Determination of metal ion mixtures using pH gradient flow-injection analysis with fluorescence detection, 308 (1995) 313

#### Metal ions

A versatile macro- to micro-size stationary mercury drop electrode, 302 (1995) 1

Determination of trace metal ions by capillary electrophoresis with fluorescence detection based on post-column complexation with 8-hydroxyquinoline-5-sulphonic acid, 371 (1998) 269

Supercritical fluid extraction of mercury(II) ion via in situ chelation and pre-formed mercury complexes from different matrices, 379 (1999) 1

Optimisation of resolution function in signals ratio method and deconvolution by polynomial division – quantitation of Cd(II) and In(III) from their global signals obtained at carbon fibre disk ultramicroelectrode, 382 (1999) 105

Simultaneous determination of inorganic anions and metal ions by suppressed ion chromatography, 382 (1999) 291

## Metal ions determination

Novel application and comparison of multivariate calibration for the simultaneous determination of Cu, Zn and Mn at trace levels using flow injection diode array spectrophotometry, 398 (1999) 93

## Metal partitioning

Application of microwave extraction for partitioning of heavy metals in sewage sludge, 378 (1999) 201

# Metal preconcentration

Hollow fiber based supported liquid membrane: a novel analytical system for trace metal analysis, 350 (1997) 183

## Metal separations

Hollow fiber based supported liquid membrane: a novel analytical system for trace metal analysis, 350 (1997) 183

Chelation ion chromatography of metal ions using an ODS reversedphase column and a mobile phase containing methylthymol blue, 375 (1998) 117

#### Metal sorption

Synthesis and metal sorption studies of p-tert-butylcalix[8]arene chemically bound to polymeric support, 335 (1996) 283

## Metal speciation

Determination of vanadium(IV) and vanadium(V) by formation of a transient mixed valence complex in a flow-injection manifold, 307 (1995) 1

Proposal for a metal speciation study in sediments, 309 (1995) 387Pseudopolarographic determination of stability constants of labile zinc complexes in fresh water, 310 (1995) 131

Determination of selenium speciation in river waters by adsorption on iron(III)-Chelex-100 resin and differential pulse cathodic stripping voltammetry, 321 (1996) 185

Speciation of metals associated with natural water components by on-line membrane fractionation combined with inductively coupled plasma atomic emission and mass spectrometries, 327 (1996) 167

Stability studies of arsenate, monomethylarsonate, dimethylarsinate, arsenobetaine and arsenocholine in deionized water, urine and clean-up dry residue from urine samples and determination by liquid chromatography with microwave-assisted oxidation-hydride generation atomic absorption spectrometric detection, 340 (1997) 209

Competitive equilibration techniques for determining transition metal speciation in natural waters: Evaluation using model data, 343 (1997) 161

Inhibition behavior of acid phosphatase, phosphodiesterase I and adenosine deaminase as tools for trace metal analysis and speciation, 360 (1998) 101

Stripping voltammetry for the determination of trace metal speciation and in-situ measurements of trace metal distributions in marine waters, 400 (1999) 381

# Metal traces

Determination of copper, cadmium, iron, manganese, nickel and zinc in Antarctic sea water. Comparison of electrochemical and spectroscopic procedures, 305 (1995) 200

#### Metal-co-ordination

Selective detection of nitrogen and oxygen containing volatile organic compounds: use of metal-modified polysiloxanes as sensor coatings, 346 (1997) 327

# Metal-ion detection

Enzymatically generated polyphenols as array-based metal-ion sensors, 370 (1998) 251

## Metal-ion speciation

Metal complexation model identification and the detection and elimination of erroneous points using evolving least-squares fitting of voltammetric data, 363 (1998) 261

## Metal-ion-Ligand complexation model identification

Metal complexation model identification and the detection and elimination of erroneous points using evolving least-squares fitting of voltammetric data, 363 (1998) 261

# Metal-ligand systems

A polarographic method of speciation for labile metal-ligand systems based on mass-balance equations. A differential pulse polarographic study at fixed ligand to metal ratio and varied pH, 336 (1996) 23

## Metallised electrodes

Electrochemical metallisation of carbon electrodes, 373 (1998) 261

#### Metallized carbons

Remarkably selective metallized-carbon amperometric biosensors, 305 (1995) 3

#### Metallocenes

Anion selective polymeric membrane electrodes based on metallocenes, 304 (1995) 171

## Metallomesogenic siloxane polymer

Metallomesogens as stationary phases for the separation of phenols by gas chromatography, 384 (1999) 51

## Metallomesogens

Metallomesogens as stationary phases for ligand exchange gas chromatography - Part I. The use of nickel and zinc complexes of 4-decanoxydithiobenzoic acid for the separation of polycyclic aromatic hydrocarbons and dialkyl sulfides, 332 (1996) 23

Metallomesogens as stationary phases for the separation of phenols by gas chromatography, 384 (1999) 51

# Metalloporphyrins

Amperometric sensor for Propanil, 320 (1996) 263

Metalloporphyrin-based polymer membrane electrode with high selectivity for 2-hydroxybenzhydroxamate, 321 (1996) 11

The application of metalloporphyrins as coating material for quartz microbalance-based chemical sensors, 325 (1996) 53

Biomimic of peroxidase and enzymatic assay for ascorbic acid, 334 (1996) 303

Liquid chromatography/electrochemical detection of phenols at a Poly[Ni-(Protoporphyrin IX)] chemically modified electrode, 336 (1996) 195

Potentiometric behavior of metalloporphyrin-based ion-selective electrodes: Use of silicone rubber matrix for serum chloride analysis, 367 (1998) 175

Potentiometric anion response of poly(5,15-bis(2-aminophenyl)porphyrin) electropolymerized electrodes, 381 (1999) 197

Pattern recognition approach to the study of the interactions between metalloporphyrin Langmuir–Blodgett films and volatile organic compounds, 384 (1999) 249

Three analytical methods to isolate and characterize vanadium and nickel porphyrins from heavy crude oil, 395 (1999) 343

#### Metalloporphyrin-silica

Redox-modulated solute retention on iron-protoporphyrin-silica stationary phases, 392 (1999) 191

## Metalloprotein characterization

Characterisation of human metallothioneins from foetal liver and adult kidney using differential pulse polarography, 350 (1997) 305

# Metalloproteins

Isoform separation of metallothioneins by capillary zone electrophoresis with Tris-tricine buffer in the presence or absence of methanol, 372 (1998) 231

## Metallothionein

Isoform separation of metallothioneins by capillary zone electrophoresis with Tris-tricine buffer in the presence or absence of methanol, 372 (1998) 231

Quantitation of metallothionein isoforms in mouse liver on capillary zone electrophoresis, 372 (1998) 241

Complexation of cadmium by the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: study by differential pulse polarography and circular dichroism spectroscopy with multivariate curve resolution analysis, 390 (1999) 15

Biochemical speciation analysis by hyphenated techniques, 400 (1999) 321

## Metallothionein characterization

Study of the additions of cadmium and zinc to the cadmium, zinc metallothioneins using differential pulse polarography Influence of the pH, 325 (1996) 43

## Metallothionein reconstitution

The electrochemical behaviour of Cd,Zn thioneins depending on the solution pH using differential pulse polarography, 305 (1995) 285

## Metallothionein related peptide

Zinc-binding properties of the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: analysis by differential pulse polarography and multivariate curve resolution, 385 (1999) 353

# Metallothioneins and related compounds

Characterisation of zinc metallothioneins by electroanalytical techniques, 385 (1999) 295

Characterisation of zinc metallothioneins by electroanalytical techniques, 385 (1999) 307

# Metallurgical process streams

Determination of sulfuric acid in metallurgical process streams by discontinuous flow analysis, 308 (1995) 197

#### Metals

Determination of mixed metal ions by complexometric titration and nonlinear partial least squares calibration, 304 (1995) 217

Preconcentration and determination of Pb<sup>3+</sup> at an AlPO<sub>4</sub> containing carbon paste electrode, 304 (1995) 381

Capillary electrophoresis in speciation analysis. Investigations of metal-polyaminopolycarboxylate complexes and effects of metals on proteins, 306 (1995) 91

2-Mercaptobenzothiazole clay as matrix for sorption and preconcentration of some heavy metals from aqueous solution, 306 (1995) 167

A mechanized system for the determination of low levels of quickly reacting aluminium in natural waters, 306 (1995) 173

Analytical evaluation of a tungsten coil atomizer for cadmium, lead, chromium, manganese, nickel and cobalt determination by electrothermal atomic absorption spectrometry, 306 (1995) 183

Microwave-assisted robotic method for the determination of trace metals in soil, 308 (1995) 371

- On-line coated columns for the spectrophotometric determination of metals by continuous flow analysis, 308 (1995) 378
- Continuous flow analysis: simultaneous spectrophotometric determinations of metals, 308 (1995) 386
- Trace enrichment and ion chromatographic determination of metal oxoanions in environmental water samples, 309 (1995) 173
- Fluorometric detection of heavy metals with N-methyl-N-9-(methylanthracene)-N'-benzoylthiourea, 309 (1995) 339
- Simultaneous multielement determination in complex matrices using frequency-modulated electrothermal atomic absorption spectrometry, 310 (1995) 181
- The effect of chelate ring size on metal ion size-based selectivity in polyamine ligands containing pyridyl and saturated nitrogen donor groups, 312 (1995) 307
- On-line ion-exchange separation and determination of niobium, tantalum, tungsten, zirconium and hafnium in high-purity iron by flow injection inductively coupled plasma mass spectrometry, 315 (1995) 331
- Knowledge-based system for the provision of an analytical strategy for simultaneous determination of metals by differential-pulse polarography, 316 (1995) 47
- A flowing electrolytic hydride generator for continuous sample introduction in atomic spectrometry, 316 (1995) 129
- Nafion-based optode for the detection of metal ions in flow analysis, 319 (1996) 127
- Photokinetic study of the Rose Bengal B-tin(II) reaction. Determination of tin in metals, 325 (1996) 81
- Simultaneous determination of several trace metals in seawater using cathodic stripping voltammetry with mixed ligands, 337 (1997) 29
- Microwave vacuum drying of marine sediment: determination of moisture content, metals and total carbon, 342 (1997) 247
- Simultaneous determination of mixtures of metal ions by complexometric titration and multivariate calibration, 354 (1997) 233
- Characterization of green coffee varieties according to their metal content, 358 (1998) 177
- In-line deoxygenation for flow analysis with voltammetric detection, 377 (1998) 229
- Development of a simple extraction procedure using ligand competition for biogeochemically available metals of estuarine suspended particulate matter, 392 (1999) 3
- Digestion methods for analysis of fly ash samples by atomic absorption spectrometry, 395 (1999) 157
- Pseudo-total analysis for metallic elements in siliceous soil by acid digestion and flame atomic absorption spectrometry, 396 (1999) 293

## Metals, trace elements

Determination of trace elements in heavy oil samples by graphite furnace and cold vapour atomic absorption spectrometry after acid digestion, 311 (1995) 85

## Metformin

Determination of metformin in pharmaceutical preparations using potentiometry, spectrofluorimetry and UV-visible spectrophotometry, 378 (1999) 299

## Methacrylate copolymers

Parameters which influence the optimal immobilisation of oxidase type enzymes on methacrylate copolymers as demonstrated for amperometric biosensors, 323 (1996) 87

## Methacrylate-acrylate polymers

Methacrylate-acrylate based polymers of low plasticiser content for potassium ion-selective membranes, 324 (1996) 47

## Methamidophos

Immobilized enzyme modulator microassay (IEMMA) for the detection of pesticide in fresh produce, 329 (1996) 297

## Methamphetamine

- Characterization of the fluorescence properties of 4-fluoro-7-nitrobenzo-2-oxa-1,3-diazole derivatives of some primary and secondary sympathomimetic amines, 365 (1998) 169
- Serotonin monitoring in microdialysate from rat brain by microboreliquid chromatography with fluorescence detection, 365 (1998) 227

#### Methanol

- Hybrid tissue/enzyme biosensor for pectin, 306 (1995) 123
- Selective flow-injection determination of methanol using immobilized enzyme reactors, 309 (1995) 241
- Dissociation constants of neutral and charged acids in methyl alcohol. The acid strength resolution, 374 (1998) 309
- Introduction of alcohols in inductively coupled plasma mass spectrometry by a flow injection system, 379 (1999) 175

## Methemoglobin

Cyanide ion minisensor based on methemoglobin incorporated in metal supported self-assembled bilayer lipid membranes and modified with platelet-activating factor, 355 (1997) 227

#### Methimazole

Flow-injection spectrophotometric determination of carbimazole and methimazole, 308 (1995) 457

## Methionine

- Use of pH gradients in continuous-flow systems and multivariate regression techniques applied to the determination of methionine and cysteine in pharmaceuticals, 348 (1997) 151
- Monitoring of α-helical secondary structures in peptides by reversed-phase HPLC of replacement sets, 352 (1997) 365
- Kinetic study of methionine oxidation in human parathyroid hormone, 365 (1998) 301

## Method development

Application of linear solvation energy relationships to guide selection of polar modifiers in normal-phase liquid chromatographic separations, 395 (1999) 85

## Method of standard additions

Automatic implementation of the method of standard additions in unsegmented flow systems, 308 (1995) 77

# Method performance study

Inter-laboratory, time, and fitness-for-purpose aspects of effective validation, 391 (1999) 159

## Method selection

Calibration method choice by comparison of model basis functions to the theoretical instrumental response function, 348 (1997) 1

## Method validation

Influence of the sequence of experiments in a ruggedness test when drift occurs, 347 (1997) 369

Occurrence of triazine herbicides and metolachlor in the Niagara River and other major tributaries draining into Lake Ontario, 376 (1998) 113

The role of laboratory information management systems (LIMS) in analytical method validation, 391 (1999) 149

## 5-(6-Methoxy-2-benzothiazoleazo)-8-aminoquinoline

Complex formation of the new reagent 5-(6-methoxy-2-benzothia-zoleazo)-8-aminoquinoline with cobalt and nickel for their sensitive spectrophotometric detection, 391 (1999) 365

#### Methoxychlor

A sensitive fluorescence probe for DDT-type pesticides, 368 (1998)

## 3-methoxy-4-hydroxyphenylglycol

Preparation of monoclonal antibody against p-3-methoxy-4-hydroxyphenylglycol, 365 (1998) 129

## Methoxylation

Characterization of an electro-synthesized methoxylated polypyrrole film used as permselective barrier in amperometric biosensors by X-ray photoelectron and Fourier transform infrared spectroscopy, 389 (1999) 197

## β-Methyl amino acids

Chromatographic methods for the separation of enantiomers and epimers of β-alkyl amino acids and peptides containing them, 352 (1997) 335

# Methyl mercury

Two methods for the speciation analysis of mercury in fish involving microwave-assisted digestion and gas chromatography-atomic emission spectrometry, 350 (1997) 273

#### Methyl orange

Dissociation constants of methyl orange in aqueous alcohol solvents, 364 (1998) 275

## 2-methyl-4,6-dinitrophenol

Voltammetric study of 2-methyl-4,6-dinitrophenol at a modified carbon paste electrode, 370 (1998) 231

## Methylamines

Analysis of ammonia and methylamines in natural waters by flow injection gas diffusion coupled to ion chromatography, 316 (1995) 291

# Methylarsenic

Cysteine enhancement of the cryogenic trap hydride AAS determination of dissolved arsenic species, 333 (1996) 89

## Methylarsenous acid

Determination of monomethylarsenous acid by hydride generation – gas phase molecular absorption spectrometry, 381 (1999) 331

## Methylarsine

Determination of dimethylarsinic acid by hydride generation gas phase molecular absorption spectrometry, 343 (1997) 39

Determination of monomethylarsenous acid by hydride generation – gas phase molecular absorption spectrometry, 381 (1999) 331

# Methylated β-CD

Study and application of a novel probe using twisted intramolecular charge transfer fluorescence, 349 (1997) 17

## Methylated cyclodextrin derivatives

Chiral separation of several naphthalenesulfonylamino acids by capillary zone electrophoresis with selectively methylated cyclodextrin derivatives, 357 (1997) 177

## Methylated β-cyclodextrin derivatives

Chiral separation of several amino acid derivatives by capillary zone electrophoresis with selectively acetylated β-cyclodextrin derivatives, 373 (1998) 47

## 3-Methyl-2-benzothiazolinone hydrazone

Kinetic method for the determination of iron(II, III) by its catalytic effect on the oxidation of 3-methyl-2-benzothiazolinone hydrazone with hydrogen peroxide, 394 (1999) 55

## 5-Methylcytosine

Liquid chromatographic determination of 5-methylcytosine in DNA with fluorescence detection, 365 (1998) 213

## Methylene blue

Regenerated silk fibroin membrane as immobilization matrix for peroxidase and fabrication of a sensor for hydrogen peroxide utilizing methylene blue as electron shuttle, 316 (1995) 65

Sensitivity enhancement of the methylene blue catalytic-spectrophotometric method of selenium(IV) determination by CTAB, 335 (1996) 155

Voltammetric studies of the interaction of methylene blue with DNA by means of β-cyclodextrin, 394 (1999) 337

# Methylene green

A reagentless amperometric biosensor based on the coimmobilization of horseradish peroxidase and methylene green in a modified zeolite matrix, 386 (1999) 31

## 3,4-Methylenedioxyamphetamine

Determination of 3,4-methylenedioxyamphetamine analogues ("ecstasy") by proton nuclear magnetic resonance spectrometry, 339 (1997) 259

## Methylgermanium

Evaluation of gas chromatography with a flame photometric detector based on quartz surface-induced emission for determining the speciation of inorganic and methylgermanium compounds, 337 (1997) 83

#### Methylguanine

Simultaneous determination of 7-methylguanine and 06-methylguanine in DNA by liquid chromatography with postcolumn fluorescence derivatization using 3,4-dimethoxyphenylglyoxal, 365 (1998) 233

## Methylidene malonate 2.1.2

Diastereoisomer separation of methylidene malonate 2.1.2 oligomerization products by liquid chromatography using a nonchiral stationary phase, 359 (1998) 57

## Methyl-mercury

Rapid acid leaching and slurry sampling procedures for the determination of methyl-mercury and total mercury in human hair by electrothermal atomic absorption spectrometry, 398 (1999) 263

## 3-Methyl-3-nitrobut-1-ene

Characterisation of the ion mobility spectrometric behaviour of a dinitrobutane under varying conditions of temperature and concentration, 375 (1998) 49

## Methylthymol blue

Chelation ion chromatography of metal ions using an ODS reversedphase column and a mobile phase containing methylthymol blue, 375 (1998) 117

## Methylviologen

Factors affecting the analytical applications of zeolite-modified electrodes Preconcentration of electroactive species, 340 (1997) 61

## Metolachlor

Occurrence of triazine herbicides and metolachlor in the Niagara River and other major tributaries draining into Lake Ontario, 376 (1998) 113

Use of immunoassays for biomonitoring of herbicide metabolites in urine, 376 (1998) 119

Evaluation of analytical methods for determining pesticides in baby food, 399 (1999) 135

## Metolachlor mercapturate

Development and validation of an ELISA for metolachlor mercapturate in urine, 399 (1999) 109

#### Metribuzin

Mechanism of metribuzin herbicide sorption by humic acid samples from peat and vermicompost, 368 (1998) 155

# Metrifonate

Flow injection determination of metrifonate by immobilised acetylcholinesterase inhibition, 332 (1996) 179

## Metrology

Detection and quantification limits: origins and historical overview, 391 (1999) 127

## Metrology in chemistry

Reliability of analytical information in the XXIst century, 400 (1999) 425

## Metronidazole

Continuous in-vivo monitoring of metronidazole in cerebrospinal fluid by a on-line flow-cell fiber-optic chemical sensor system, 331 (1996) 103

Separation and estimation of diloxanide furoate and metronidazole in solid dosage form using packed column supercritical fluid chromatography, 354 (1997) 123 Simultaneous estimation of nalidixic acid and metronidazole in dosage forms using packed column supercritical fluid chromatography, 376 (1998) 221

## Mg

Assessment of a screening method for metals in seawater based on the non-selective reagent 4-(2-pyridylazo)resorcinol (PAR), 371 (1998) 227

# Mg2+ and Ca2+

Simultaneous determination of common inorganic anions, magnesium and calcium ions in various environmental waters by indirect UV-photometric detection ion chromatography using trimellitic acid-EDTA as eluent, 373 (1998) 189

## Mg-W cell

Determination of bismuth in environmental samples with Mg-W cell-electrothermal atomic absorption spectrometry, 379 (1999) 169

#### MIBK

Analysis and storage of samples for chromium determination in seawater, 356 (1997) 35

## Micellar catalysis

Sensitivity enhancement of the methylene blue catalytic-spectrophotometric method of selenium(IV) determination by CTAB, 335 (1996) 155

## Micellar electrokinetic chromatography

Micellar electrokinetic chromatography of highly hydrophobic peptides, 372 (1998) 273

#### Micellar eluents

Modelling of the elution behaviour in hybrid micellar eluents with different organic modifiers, 381 (1999) 275

# Micellar liquid chromatography

Micellar liquid chromatographic determination of diuretics by diazotization and coupling with the Bratton-Marshall reagent, 353 (1997) 215

Neural networks as a tool for modelling the retention behaviour of dihydropyridines in micellar liquid chromatography, 353 (1997) 367

Separation of barbiturates in micellar liquid chromatography by means of a multifactor design, 356 (1997) 19

Chromatographic determination of diuretics in urine samples using hybrid micellar mobile phases with fluorimetric detection, 375 (1998) 143

Direct injection of edible oils as microemulsions in a micellar mobile phase applied to the liquid chromatographic determination of synthetic antioxidants, 387 (1999) 127

## Micellar media

Hexadecylpyridinium chloride micelles for the simultaneous kinetic determination of cysteine and cystine by their induction of the iodine-azide reaction, 337 (1997) 341

#### Micellar medium

Sensitive spectrofluorimetric method for the determination of ethylenediaminetetraacetic acid and its salts in foods with zirconium ions and Alizarin Red S in a micellar medium, 329 (1996) 319

## Micellar partitioning

Selectivity optimization after prediction of the migration behaviour of anions in capillary ion analysis in the presence of micelles, 310 (1995) 27

#### Micellar solutions

Influence of the Soret effect on the analytical signal in cw-laser thermal lens spectrometry of micellar solutions, 386 (1999) 287

#### Micellar system

Simultaneous flow-injection determination of iron(II) and total iron by micelle enhanced luminol chemiluminescence, 376 (1998) 247

# Micelles

Chemiluminescence of protected hemiaminal N-methoxymethyl-N'-methyl-9,9'-biacridylidene in homogeneous and micellar media. Prospects for analytical applications, 304 (1995) 91

A rapid procedure for the determination of caffeine, theophylline and theobromine in urine by micellar liquid chromatography and direct sample injection, 304 (1995) 195

Comparing organized media types using fluorescence probe characterization methods, 307 (1995) 419

Effect of molecular structure on the solute-micelle and solutestationary phase binding constants in micellar liquid chromatography, 310 (1995) 461

Study on strongly polarized water in AOT reversed micelles by fluorescence probes and analytical application of AOT reversed micelles, 312 (1995) 337

Room temperature phosphorescence properties of dansyl chloride and its derivatives, 312 (1995) 345

Automatic determination of liposoluble vitamins in butter and margarine using Triton X-100 aqueous micellar solution by liquid chromatography with electrochemical detection, 315 (1995) 201

Micelle enhanced spectrofluorimetric assay for laccase activity by a flow-injection stopped-flow technique, 318 (1995) 63

Sensitized room temperature phosphorescence of biacetyl in AOT reversed micelles-dodecylammonium α-naphthylacetate as energy donor, 319 (1996) 231

Determination of ranitidine in pharmaceutical preparations using manual and flow injection potentiometry and spectrophotometry, 332 (1996) 39

Application of micellar effects to the simultaneous kinetic determination of pyridoxal and pyridoxal-5'-phosphate, 345 (1997) 87

Sensitive and rapid flow injection analysis of sulfonylurea herbicides in water with micellar-enhanced photochemically induced fluorescence detection, 392 (1999) 255

#### Micellization

Pseudo-nonionic complexes as a new approach to the determination of ionic amphiphilic substances, 384 (1999) 105

#### Michellamine

Supercritical fluid extraction of michellamines A and B from ancistrocladus korupensis leaves, 347 (1997) 305

#### Micro drop

Micro volume rotating disk electrode (RDE) amperometric detection for a bead-based immunoassay, 399 (1999) 3

#### Micro electrodes

Synergetic effects in the flow injection analysis determination of catechol in the presence of excess ascorbic acid by series dualband amperometric detection, 385 (1999) 281

## Micro flow injection analysis

Development of a micro flow injection manifold for the determination of orthophosphate, 313 (1995) 155

Characterisation of a micro-total analytical system for the determination of nitrite with spectrophotometric detection, 387 (1999) 1

#### Micro LC

Simultaneous absorbance, fluorescence and refractive index (SAFRIN) detection for Micro LC, 397 (1999) 191

#### Micro steam distillation

Simultaneous micro steam distillation/solvent extraction for the isolation of semivolatile flavor compounds from cinnamon and their separation by series coupled-column gas chromatography, 302 (1995) 147

# Micro/macro Hg drop electrode

A versatile macro- to micro-size stationary mercury drop electrode, 302 (1995) 1

# Microassay

Immobilized enzyme modulator microassay (IEMMA) for the detection of pesticide in fresh produce, 329 (1996) 297

# Microband array electrodes

Application of microband array electrodes for end-column electrochemical detection in capillary electrophoresis, 385 (1999) 409

#### Microbial assays

Development of a microbial bioassay for chlorinated and brominated hydrocarbons, 306 (1995) 237

## Microbial biosensor

Mediator type of glucose microbial biosensor based on Aspergillus niger, 356 (1997) 217

## Microbial cells

Electro-optical properties of microbial cells as affected by acrylamide metabolism, 347 (1997) 241

## Microbial glucose oxidase

Microbial enzymatic assay of glucose in serum, 349 (1997) 165

# Microbial population

Model of quartz crystal microbe growth sensor and its application to estimation of microbial populations in mineral waters, 329 (1996) 83

# Microbial sensor

Sulfate sensor using Thiobacillus ferrooxidans, 347 (1997) 275

## Microbore HPLC

Serotonin monitoring in microdialysate from rat brain by microboreliquid chromatography with fluorescence detection, 365 (1998) 227

## Microbore LC-EC

Determination of angiotensin II in blood-brain barrier permeability studies using microbore LC with p-nitrophenyl-2,5-dihydroxyphenylacetate bis-tetrahydropyranyl ether as a pre-separation electrochemical labeling reagent, 394 (1999) 299

## Microbore liquid chromatography

The use of titanium dioxide as a photo-catalyst to improve the sensitivity of post-column photolysis-electrochemical detection for microbore liquid chromatography, 356 (1997) 177

# Micro-capillary HPLC

Procedures leading to primary structure determination of proteins in complex mixtures by gel electrophoresis and modern microscale analyses, 372 (1998) 21

#### Microchips

Sequential injection sample introduction microfluidic-chip based capillary electrophoresis system, 390 (1999) 27

# Micro-column liquid chromatography

Sensitive absorption detection for micro-column liquid chromatography by ultraviolet forward-scattering degenerate four-wave mixing, 390 (1999) 55

## Microcrystalline naphthalene

Derivative UV-visible spectrophotometric determination of nickel in alloys and biological samples after preconcentration with the ion pair of 2-nitroso-1-naphthol-4-sulfonic acid and tetradecyldimethylbenzylammonium chloride onto microcrystalline naphthalene or by a column method, 367 (1998) 55

# Microcystins

Development of a bioanalytical phosphatase inhibition test for the monitoring of microcystins in environmental water samples, 394 (1999) 243

Potential of immunoextraction coupled to analytical and bioanalytical methods (liquid chromatography, ELISA kit and phosphatase inhibition test) for an improved environmental monitoring of cyanobacterial toxins, 399 (1999) 75

## Microcystis aeruginosa

Quantitative determination of cyanobacteria in mixed phytoplankton assemblages by an in vivo fluorimetric method, 302 (1995)

# Microdialysis

On-line interface between microdialysis and capillary zone electrophoresis, 307 (1995) 217

Monitoring of enzymatic hydrolysis of ivory nut mannan using online microdialysis sampling and anion-exchange chromatography with integrated pulsed electrochemical detection, 313 (1995) 15

Evaluation of detection and sample clean-up techniques for on- and off-line fermentation monitoring systems, 324 (1996) 103

Binding of sulfamethoxazole to human serum albumin studied by a combined technique of microdialysis with liquid chromatography, 342 (1997) 159

Design and development of a miniaturised total chemical analysis system for on-line lactate and glucose monitoring in biological samples, 346 (1997) 341

Continuous measurement of lactate in microdialysate, 351 (1997) 127

In vitro microdialysis of hydrophilic and lipophilic compounds, 355 (1997) 75

Serotonin monitoring in microdialysate from rat brain by microboreliquid chromatography with fluorescence detection, 365 (1998) 227

Simultaneous monitoring of glucose and L-lactic acid during a fermentation process in an aqueous two-phase system by online FIA with microdialysis sampling and dual biosensor detection, 366 (1998) 127

Recovery as a function of the osmolality of the perfusion medium in microdialysis experiments, 375 (1998) 135

Do neurotransmitters sampled by brain microdialysis reflect functional release?, 379 (1999) 263

On-line coupling of in vivo microdialysis with capillary electrophoresis/electrochemistry, 379 (1999) 307

Recovery as a function of the osmolality of the perfusion medium in microdialysis experiments, 379 (1999) 319

Slow ultrafiltration for continuous in vivo sampling: application for glucose and lactate in man, 379 (1999) 327

Methods and issues in microdialysis calibration, 379 (1999) 337

Using a microdialysis shunt probe to monitor phenolphthalein glucuronide in rats with intact and diverted bile flow, 379 (1999) 359

Flow-injection analysis—electrochemical detection for the determination of drug—protein interactions with microdialysis sampling, 386 (1999) 123

Determination of glutathione in vivo by microdialysis using liquid chromatography with a cobalt hexacyanoferrate chemically modified electrode, 391 (1999) 307

Calibration methods for microdialysis sampling in vivo: muscle and adipose tissue, 400 (1999) 143

# Microdialysis sampling

Comparison of recovery and delivery in vitro for calibration of microdialysis probes, 316 (1995) 403

A review of microdialysis sampling for pharmacokinetic applications, 379 (1999) 227

Multichannel amperometric detection system for liquid chromatography to assay the thiols in human whole blood using the platinum microelectrodes chemically modified by copper tetraaminophthalocyanine, 399 (1999) 213

## Microdistillation

An integrated microdistillation flow injection system for nitrite measurement, 395 (1999) 225

#### Microelectrode arrays

Theoretical treatment of the current vs. time response of microelectrode arrays to changes of potential, concentration, or flow, 341 (1997) 121 Microelectrode arrays: application in batch-injection analysis, 385 (1999) 257

#### Microelectrodes

Electrochemical detection with microelectrodes in capillary flow systems, 305 (1995) 114

Surface-confined monomers on electrode surfaces Part 3. Electrochemical reactions and scanning probe microscopy investigations of ω-(N-pyrrolyl) alkanethiol self-assembled monolayers on gold, 307 (1995) 269

Catalytic oxidation of reduced nicotinamide adenine dinucleotide at a microband gold electrode modified with nickel hexacyanoferrate, 310 (1995) 145

Detection of amino acids at conducting electroactive polymer modified electrodes using flow injection analysis. Part II. Use of microelectrodes, 339 (1997) 211

Flow injection analysis of copper diethyldithiocarbamate in high resistance toluene media using a microelectrode detector, 340 (1997) 169

Detection of haloacetic acids at conductive electroactive polymermodified microelectrodes, 341 (1997) 141

A microelectrochemical detector for use at low linear velocities in capillary column systems, 344 (1997) 77

[Os(bpy)<sub>2</sub>(PVI)<sub>10</sub>Cl]Cl polymer-modified carbon fiber electrodes for the electrocatalytic oxidation of NADH, 345 (1997) 51

An approach to the calibrationless determination of copper and lead by anodic stripping voltammetry at thin mercury film microelectrodes. Application to well water and rain, 346 (1997) 145

The kinetics-based electrochemical determination of serum glutamate pyruvate transaminase activity with a gold microelectrode, 353 (1997) 319

Square-wave anodic stripping voltammetry of Zn(II) as a method for probing instabilities at a glassy carbon mercury film microelectrode, 357 (1997) 33

Steady state voltammetry in the process of hydrogen evolution in buffer solutions, 361 (1998) 141

Capillary batch injection analysis: a novel approach for analyzing nanoliter samples, 362 (1998) 213

Sensitive catecholamine measurement using a monoenzymatic recycling system, 368 (1998) 233

Cathophoresis paint insulated carbon fibre ultramicro disc electrode and its application to in vivo amperometric monitoring of quantal secretion from single rat melanotrophs, 378 (1999) 135

Microelectrode arrays: application in batch-injection analysis, 385 (1999) 257

Effect of the medium composition on the current of steady state voltammograms of neutral and charged species in dimethylformamide/toluene mixtures, 385 (1999) 365

Analysis of chemical dynamics in microenvironments, 400 (1999)

5

## Microemulsions

Determination of anabolic steroids in pharmaceuticals by liquid chromatography with a microemulsion of sodium dodecyl sulfate and pentanol as mobile phase, 302 (1995) 163

Experimental design applied to a room-temperature phosphorimetric method for the determination of acenaphthene in a microemulsion, 318 (1996) 357 Application of variable-angle synchronous phosphorimetry in a microemulsion medium for the simultaneous determination of three polyaromatic hydrocarbons, 329 (1996) 165

Simultaneous microemulsion room temperature phosphorimetric determination of five polycyclic aromatic hydrocarbons by variable-angle synchronous scanning, 353 (1997) 337

Direct injection of edible oils as microemulsions in a micellar mobile phase applied to the liquid chromatographic determination of synthetic antioxidants, 387 (1999) 127

#### Microenvironments

Analysis of chemical dynamics in microenvironments, 400 (1999) 5

#### Microfabrication

Microfabricated amperometric creatine and creatinine biosensors, 319 (1996) 335

Development of Hg-electroplated-iridium based microelectrode arrays for heavy metal traces analysis, 385 (1999) 249

Stripping analysis into the 21st century: faster, smaller, cheaper, simpler and better, 385 (1999) 429

#### Microflow-injection analysis

Further studies into the development of a micro-FIA (μFIA) system based on electroosmotic flow for the determination of phosphate as orthophosphate, 382 (1999) 1

#### Microfluidics

Sequential injection sample introduction microfluidic-chip based capillary electrophoresis system, 390 (1999) 27

## Microheterogeneity

Fine separation of protein isoforms with alternative development in two-dimensional electrophoresis, 365 (1998) 267

# Micro-interferometric backscatter detection

Micro-interferometric backscatter detection using a diode laser, 400 (1999) 265

#### Micro-interferometry

Micro-interferometric backscatter detection using a diode laser, 400 (1999) 265

# Micromachining

Stripping analysis into the 21st century: faster, smaller, cheaper, simpler and better, 385 (1999) 429

#### Micromechanics

An artificial nose based on a micromechanical cantilever array, 393 (1999) 59

## Micrometric particles characterization

Interaction of pyrite pulps with Ag<sup>+</sup> and Hg<sup>2+</sup> ions. Electrochemical characterization of micrometric grains, 385 (1999) 467

#### Micronutrients

Modeling bio-geochemical interactions in the surface waters of the Gulf of Trieste by three-way principal component analysis (PCA), 398 (1999) 227

## Microorganisms

Development of enzyme cartridge flow-injection analysis for industrial process monitoring. Part II. Application for monitoring of microorganism cultivations, 302 (1995) 289

New fluorescence tools for investigating enzyme activity, 307 (1995) 393

#### Microperoxidase

First direct interfacial electron transfer between a biomolecule and a solid electrode in non-aqueous media: direct electrochemistry of microperoxidase-11 at glassy carbon in dimethyl sulfoxide solution, 307 (1995) 245

Direct electrocatalytic determination of dissolved peroxidases, 329 (1996) 231

Amperometric immunosensing using microperoxidase MP-11 antibody conjugates, 374 (1998) 167

#### Micro-pH electrode

An integrated microdistillation flow injection system for nitrite measurement, 395 (1999) 225

#### Micro-planar

Transcutaneous lactate monitoring based on a micro-planar amperometric biosensor, 312 (1995) 323

#### Microplate

Microplate photometric determination of aldehydes in disinfectant solutions, 351 (1997) 247

#### Microporous tube

Automated analysis of low-molecular weight organic acids in ambient air by a microporous tube diffusion scrubber system coupled to ion chromatography, 353 (1997) 227

#### Microreactor

Spectrophotometric determination of ozone in ozonized air currents with chemical gas-liquid transfer using a microreactor, 380 (1990) 93

# Micro-reflectometry

Label free optical immunoprobes for pesticide detection, 347 (1997)

## Micro-refractometry

Label free optical immunoprobes for pesticide detection, 347 (1997)

# Micro-scale electrolysis cell

A micro-scale mercury cathode electrolysis procedure for on-line flow injection inductively coupled plasma mass spectrometry trace elements analysis in steel samples, 389 (1999) 247

A quartz crystal microbalance assay for detection of antibodies against the recombinant African swine fever virus attachment protein p12 in swine serum, 368 (1998) 183

# Microsample dispersion

A new flow injection single-standard calibration method for flame atomic absorption spectrometry based on dilution by microsample dispersion, 326 (1996) 49

## Microsampling

A new flow injection single-standard calibration method for flame atomic absorption spectrometry based on dilution by microsample dispersion, 326 (1996) 49

## Microscopy

Atomic-scale view of motion on surfaces, 307 (1995) 355

Scanning tunneling microscopic observations of commensurate crystalline structures for horizontally deposited cadmium stearate bilayers on graphite, 307 (1995) 377

Time-resolved, total internal reflection fluorescence microscopy of cultured cells using a Tb chelate label, 307 (1995) 403

Monitoring solid phase synthesis by infrared spectroscopic techniques, 393 (1999) 213

## Microsensors

Optimization of amperometric microsensors for monitoring choline in the extracellular fluid of brain tissue, 307 (1995) 291

Use of photopolymerizable membranes based on polyacrylamide hydrogels for enzymatic microsensor construction, 351 (1997) 169

Membranes containing new large size calixarenes on semiconductor substrates for chemical microsensors, 354 (1997) 283

Micromachined biosensor terminals for the study of growing neurons, 385 (1999) 73

# Microseparation methods

Effect of AC voltage frequency on the sensitivity of conductometric detection in microseparation techniques, 390 (1999) 101

#### Microseparation systems

Forward-scattering degenerate four-wave mixing as a potential laser-based absorption detection method in liquid separation systems: Coupling to conventional-size liquid chromatography, 330 (1996) 189

## Microsequencing

Application of polyacrylamide slab gel electrophoresis to the analysis and small-scale purification of amyloid proteins, 372 (1998) 161

#### Microspheres

Derivatized, swellable polymer microspheres for chemical transduction, 400 (1999) 55

#### Micro-titration

Direct determination of caustic hydroxide by a micro-titration method with dual-wavelength photometric end-point detection, 341 (1997) 297

Simultaneous and automatic determination of hydroxide and carbonate in aluminate solutions by a micro-titration method, 388 (1999) 219

## Microtrap

A simple and sensitive method for the determination of volatile halogenated organic compounds in sea water in the amol l<sup>-1</sup> to pmol l<sup>-1</sup> range, 357 (1997) 197

#### Microwave

Cysteine enhancement of the cryogenic trap hydride AAS determination of dissolved arsenic species, 333 (1996) 89

Stability studies of arsenate, monomethylarsonate, dimethylarsinate, arsenobetaine and arsenocholine in deionized water, urine and clean-up dry residue from urine samples and determination by liquid chromatography with microwave-assisted oxidation-hydride generation atomic absorption spectrometric detection, 340 (1997) 209

Microwave vacuum drying of marine sediment: determination of moisture content, metals and total carbon, 342 (1997) 247

Direct spectrophotometric determination of chromium by microwave-oven induced flow-injection analysis, 374 (1998) 61

Determination of five selenium compounds in urine by liquid chromatography with focused microwave assisted digestion and hydride generation—atomic absorption spectrometric detection, 374 (1998) 241

## Microwave decomposition

Determination of low levels of platinum group metals: new solutions, 334 (1996) 167

## Microwave digester

A robotic-flow injection approach to the fully automated determination of starch in food, 333 (1996) 205

## Microwave digestion

Orthogonal array design for the optimization of closed-vessel microwave digestion parameters for the determination of trace metals in sediments, 314 (1995) 121

Multi-element analysis of airborne particulate matter by various spectrometric methods after microwave digestion, 320 (1996) 207

Hair analysis. Part 1: Differential pulse anodic stripping voltammetric determination of lead, cadmium, zinc and copper in human hair samples of persons in permanent contact with a polluted workplace environment, 335 (1996) 201

Low volume microwave digestion for the determination of selenium in marine biological tissues by graphite furnace atomic absorption spectroscopy, 350 (1997) 287

Application of microwave digestion to trace organoelement determination in water samples, 374 (1998) 209

Determination of chromium in airborne particulate matter by high resolution and laser ablation inductively coupled plasma mass spectrometry, 389 (1999) 257

Digestion methods for analysis of fly ash samples by atomic absorption spectrometry, 395 (1999) 157

## Microwave dissolution

Microwave dissolution of plant tissue and the subsequent determination of trace lanthanide and actinide elements by inductively coupled plasma-mass spectrometry, 322 (1996) 11

#### Microwave energy

Application of microwave extraction for partitioning of heavy metals in sewage sludge, 378 (1999) 201

## Microwave extraction system

Microwave-assisted solvent elution technique for the extraction of organic pollutants in water, 330 (1996) 217

## Microwave heating

Determination of phosphorus in turbid waters using alkaline potassium peroxodisulphate digestion, 315 (1995) 123

Modeling energy transfer in a focused microwave digestor, 318 (1996) 261

## Microwave induced plasma

Determination of small amounts of palladium in wastes from reworking of spent catalysts by microwave induced plasma atomic emission spectrometry, 317 (1995) 365

Determination of organometallic forms of mercury, tin and lead by in situ derivatization, trapping and gas chromatography – atomic emission detection, 394 (1999) 259

#### Microwave irradiation

Effect of solvent properties on the dispersion coefficient in an online microwave flow-injection system, 314 (1995) 213

Sorption-photometric determination of ascorbic acid using molybdosilicic heteropolyacid and polyurethane foam after microwave irradiation, 373 (1998) 131

#### Microwave oven

Sample preparation in sequential injection analysis. Spectrophotometric determination of total phosphorus in food samples, 371 (1998) 57

## Microwave plasma torch

Use of an air/argon microwave plasma torch for the detection of tetraethyllead, 383 (1999) 231

# Microwave sample decomposition

Microwave-assisted sample decomposition in flow analysis, 366 (1998) 63

#### Microwave sample oxidation

Rapid determination of chemical oxygen demand by a semi-automated method based on microwave sample digestion, chromium(VI) organic solvent extraction and flame atomic absorption spectrometry, 372 (1998) 399

## Microwave sequential extraction

A study of the analytical parameters important for the sequential extraction procedure using microwave heating for Pb, Zn and Cu in calcareous soils, 369 (1998) 235

## Microwave-assisted digestion

Two methods for the speciation analysis of mercury in fish involving microwave-assisted digestion and gas chromatography-atomic emission spectrometry, 350 (1997) 273

Total nitrogen determination by flow injection using on-line microwave-assisted digestion, 351 (1997) 273

## Microwave-assisted extraction

Efficiency of the microwave-assisted extraction of hydrocarbons and pesticides from sediments, 344 (1997) 241

Evaluation of extraction alternatives for Fourier transform infrared spectrometric determination of oil and greases in water, 345 (1997) 161

Microwave-assisted extraction of atrazine from soil followed by rapid detection using commercial ELISA kit, 371 (1998) 97

## Microwave-assisted heating

Microwave-assisted vapour-generation Fourier transform infrared spectrometric determination of carbonate in waters, 358 (1998) 235

## Microwave-assisted sample preparation

Microwave-accelerated speciation analysis for butylin compounds in sediments and biomaterials by large volume injection capillary gas chromatography quartz furnace atomic absorption spectrometry, 332 (1996) 225

## Microwave-assisted saponification

Microwave-assisted saponification of animal greases for cholesterol determination, 371 (1998) 297

#### Microwave-assisted solvent elution

Microwave-assisted solvent elution technique for the extraction of organic pollutants in water, 330 (1996) 217

#### Microwaves

Microwave-assisted digestion of soils for the determination of <sup>90</sup>Sr, 355 (1997) 283

Microwave-assisted pre-treatment of environmental samples for the determination of <sup>90</sup>Sr, 379 (1999) 135

## Microwave-spectrometry

Quantitative millimetre wavelength spectrometry. Part IV. Response curves for oxygen in carbon dioxide and nitrogen at 60 GHz, 367 (1998) 245

## Migraine

Development of a sensitive radioimmunoassay for the potential antimigraine drug GR151004: including cross-validation to liquid chromatography-mass spectrometry-mass spectrometry and application to pharmacokinetic studies, 334 (1996) 225

#### Migration

Voltammetric investigation of the complexation equilibria in the presence of a low level of supporting electrolyte Part 1: Steady-state current-potential curves for inert complexes, 337 (1997) 5

Mathematical model for the migration of plasticisers from food contact materials into solid food, 347 (1997) 249

Voltammetric investigation of the complexation equilibria in the presence of a low level of supporting electrolyte. Experiments with an inert complex, 377 (1998) 29

Effect of the medium composition on the current of steady state voltammograms of neutral and charged species in dimethylformamide/toluene mixtures, 385 (1999) 365

Sensitivity control of ion-selective biosensors by electrophoretically mediated analyte transport, 391 (1999) 57

# Migration time

The mutual relationships between applied voltage, migration time and peak area in capillary zone electrophoresis, 342 (1997) 59

#### Milk

Determination of penicillins in animal tissues at trace residue concentrations Part I. Determination of benzylpenicillin in milk by reversed-phase liquid chromatography with solid phase extraction and liquid chromatographic fractionation clean-up, 318 (1995) 95

Automated determination of lactulose in milk using an enzyme reactor and flow analysis with integrated dialysis, 324 (1996) 37 Electrothermal atomic absorption spectrometric determination of molybdenum, aluminium, chromium and manganese in milk, 356 (1997) 267

Indirect cathodic-stripping voltammetric determination of ceftazidime as a mercury salt, 367 (1998) 255

Speciation of copper and manganese in milk by solid-phase extraction/inductively coupled plasma-atomic emission spectrometry, 375 (1998) 299

Microwave-assisted pre-treatment of environmental samples for the determination of 90Sr, 379 (1999) 135

Flow-injection analysis of Kjeldahl nitrogen in milk and dairy products by potentiometric detection, 385 (1999) 437

Receptor binding protein amperometric affinity sensor for rapid βlactam quantification in milk, 398 (1999) 13

# Milk coagulation

A rapid method for determination of Staphylococcus aureus based on milk coagulation by using a series piezoelectric quartz crystal sensor, 369 (1998) 139

## Milk fat

Assessment of the intermediate phase in milk fat by low-resolution nuclear magnetic resonance, 311 (1995) 217

## Milk protein and casein determination

Determination of protein and case in in milk by fourth derivative UV spectrophotometry, 393 (1999) 227

#### Milk supply route

Application of radioimmunoassay in the screening of polychlorinated biphenyls in cow's milk, 311 (1995) 415

## Millimetre wave spectrometry

Quantitative millimetre wave spectrometry. Part I: design and implementation of a tracked millimetre wave confocal Fabry-Perot cavity spectrometer for gas analysis, 311 (1995) 99

## Millimetre-wavelength-spectrometry

Quantitative millimetre wavelength spectrometry. Part IV. Response curves for oxygen in carbon dioxide and nitrogen at 60 GHz, 367 (1998) 245

#### Mimetic enzyme

Biomimic of peroxidase and enzymatic assay for ascorbic acid, 334 (1996) 303

A novel polymer-mimetic enzyme immunoassay system based on thermal phase separating technique, 375 (1998) 177

Application of iron-tetrasulfonatophthalocyanine as a new mimetic peroxidase in the determination of hydrogen peroxide with phydroxyphenylpropionic acid as a substrate, 381 (1999) 175

Determination of glucose based on the effect of photons as a substitute for glucose oxidase, 388 (1999) 11

# Mimicking olfactory system

Mimicking the olfactory system by a thickness-shear-mode acoustic sensor array, 335 (1996) 117

#### MIN6 cel

Simultaneous analysis of membrane potential and calcium mobilization in a pancreatic 8-cell line MIN6 by use of a double-probe imaging microscope-system, 365 (1998) 3

#### Mine waters

Use of a sequential injection technique to evaluate the effect of mixing chambers on zone penetration, 367 (1998) 111

#### Mineral ores

Adsorptive pulse polarographic determination of uranium(VI) oxinate in chloroform and its use for the analysis of uranium mineral ores, 328 (1996) 33

## Mineral water

Model of quartz crystal microbe growth sensor and its application to estimation of microbial populations in mineral waters, 329 (1996) 83

Selective determination of ultra trace concentrations of molybdenum by catalytic adsorptive stripping voltammetry, 396 (1999) 215

## Mineralization

Determination of iron and zinc in adipose tissue by on-line microwave-assisted mineralization and flow-injection graphite furnace atomic absorption spectrometry, 308 (1995) 349

Determination of phosphorus in dairy products by sample wet digestion in a microwave oven, 309 (1995) 355

## Miniaturisation

Development of a micro flow injection manifold for the determination of orthophosphate, 313 (1995) 155

Miniaturisation: a well-defined trend in separation and preconcentration techniques, 351 (1997) 23

Micro-continuous flow system for wet chemical analysis, 354 (1997) 35

Capillary batch injection analysis: a novel approach for analyzing nanoliter samples, 362 (1998) 213

Further studies into the development of a micro-FIA (μFIA) system based on electroosmotic flow for the determination of phosphate as orthophosphate, 382 (1999) 1

Characterisation of a micro-total analytical system for the determination of nitrite with spectrophotometric detection, 387 (1999)

Immunoassay on a single microparticle: the effect of particle size and number on a miniaturized time-resolved fluorometric assay of free prostate-specific antigen, 387 (1999) 11

## Miniaturized cell

Integrated sensor for continuous flow electrochemiluminescent measurements of codeine with different ruthenium complexes, 392 (1999) 95

## Minimal spanning tree

Classification of airborne particles by analytical scanning electron microscopy imaging and a modified Kohonen neural network (3MAP), 310 (1995) 1

#### Minisensor

Cyanide ion minisensor based on methemoglobin incorporated in metal supported self-assembled bilayer lipid membranes and modified with platelet-activating factor, 355 (1997) 227

## Mini-torch

Application of slurry sample introduction to a low-power inductively coupled plasma atomic emission spectrometer incorporating a mini-torch, 342 (1997) 83

## Minor triacylglycerol components

Precise classification of virgin olive oils with various linoleic acid contents based on triacylglycerol analysis, 364 (1998) 83

#### MIR

Application of IR spectroscopy and multivariate calibration to monitor the fusion synthesis of Ca- and Ca/Mg-resinates, 391 (1999) 269

## Mismatch

Novel method of detecting mismatch on DNA by using photoinduced electron transfer through DNA, 365 (1998) 49

## Mispairing

Novel method of detecting mismatch on DNA by using photoinduced electron transfer through DNA, 365 (1998) 49

## Missing data

Applications of maximum likelihood principal component analysis: incomplete data sets and calibration transfer, 350 (1997) 341

Multi- and univariate interpretation of the interlaboratory validation of PrEN 12673; GC determination of chlorophenols in water, 388 (1999) 119

## Missing values

Modeling bio-geochemical interactions in the surface waters of the Gulf of Trieste by three-way principal component analysis (PCA), 398 (1999) 227

#### Mitoxantrone

The analytical potential of diode laser-based intracavity absorption detection in column liquid chromatography, 323 (1996) 1

## Mitoxantrone oxidation

Electrochemical oxidation of mitoxantrone at a glassy carbon electrode, 385 (1999) 401

# Mixed complexes

Europium complexes investigations in natural waters by timeresolved laser-induced fluorescence, 396 (1999) 253

# Mixed gases

Effect of oxygen addition to an argon glow-discharge plasma source in atomic emission spectrometry, 306 (1995) 193

# Mixed ligand complex

Synergetic adsorption of copper(II) mixed ligand complexes onto the SEP-PAK C<sub>18</sub> column, 339 (1997) 181

## Mixed ligand solution

Simultaneous measurements of trace chromium and uranium using mixed ligand adsorptive stripping analysis, 354 (1997) 275

## Mixed micelles

Analytical potential of mixed micelle-based methodology for the determination of ionic surfactants, 345 (1997) 75

Determination of drugs based on the formation of mixed aggregates with surfactants, 362 (1998) 285

## Mixed monolayers

Conformational aspects of model chromatographic surfaces studied by sum-frequency generation, 397 (1999) 81

## Mixed networks

Modelling near infrared instrument differences by chemometric methods: testing for near infrared forage analysis, 355 (1997) 181

## Mixed potential

Potentiometric oxygen sensor based on mixed potential of cobalt wire electrode, 341 (1997) 187

# Mixed solvent

Kinetics of the electrochemical bromination of some unsaturated fatty acids by the rotating ring-disc electrode technique, 376 (1998) 357

# Mixed solvent properties

Prediction of Simple Physical Properties of Mixed Solvent Systems by Artificial Neural Networks, 371 (1998) 117

## Mixed valence complex

Determination of vanadium(IV) and vanadium(V) by formation of a transient mixed valence complex in a flow-injection manifold, 307 (1995) 1

## Mixed-level orthogonal array design

Optimization of liquid chromatographic parameters for the separation of priority phenols by using mixed-level orthogonal array design, 312 (1995) 271

## Mixed-valence compound

Chromium hexacyanoferrate based glucose biosensor, 381 (1999) 183

## Mixed-valent ruthenium-iron cyanide

Determination of nonelectroactive cations by capillary electrophoresis with amperometric detection at a graphite electrode modified with a thin film of mixed-valent ruthenium-iron cyanide, 391 (1999) 29

## Mixer-settler

Study of on-line analysis using energy dispersive X-ray fluorescence spectrometry for controlling lanthanum and neodymium extraction, 362 (1998) 253

## Mixing chambers

Use of a sequential injection technique to evaluate the effect of mixing chambers on zone penetration, 367 (1998) 111

# Mixing efficiency

Capillary flow injection: Performance under pressure, 366 (1998) 305

## Mixture resolution

A comparative study of several chemometric methods applied to the treatment of two-way kinetic-spectral data for mixture resolution, 321 (1996) 75

# Mixtures design

Application of the split-plot experimental design for the optimization of a catalytic procedure for the determination of Cr(VI), 369 (1998) 269

## Mixtures of acids

Simultaneous determination of mixtures of acids by potentiometric titration, 367 (1998) 145

#### **MKT 077**

Development of an enzyme-linked immunosorbent assay (ELISA) for antitumor agent MKT 077, 362 (1998) 177

#### MIR

Improved variable selection procedure for multivariate linear regression, 354 (1997) 225

Application and comparisons of chemometric techniques for calibration modelling using electrochemical/ICP-MS data for trace elements in UHQ water and humic acid matrices, 378 (1999)

Determination of a mixture of gamma-emitting radionuclides using solid scintillation detectors and multivariate calibration, 379 (1999) 121

Chemometrics: the issues of measurement and modelling, 400 (1999) 399

## MMPB (erythro-2-methyl-3-methoxy-4-phenylbutyric acid)

Total microcystin determination using erythro-2-methyl-3-(methoxy-d<sub>3</sub>)-4-phenylbutyric acid (MMPB-d<sub>3</sub>) as the internal standard, 386 (1999) 107

#### MMPB-da

Total microcystin determination using erythro-2-methyl-3-(meth-oxy-d<sub>3</sub>)-4-phenylbutyric acid (MMPB-d<sub>3</sub>) as the internal standard, 386 (1999) 107

#### Mn

Speciation of copper and manganese in milk by solid-phase extraction/inductively coupled plasma-atomic emission spectrometry, 375 (1998) 299

## Mobile forms

X-ray fluorescence determination of mobile forms of Cu, Zn and Co in soils with preconcentration on silica gel modified by didecylaminoethyl-β-tridecylammonium iodide, 383 (1999) 277

## Mobile phase modifiers

Solvatochromic studies of solvation effects in reversed-phase liquid chromatography with addition of 1-propanol, 388 (1999) 345

## Mobility

Estimation of calcium-binding constants of casein phosphopeptides by capillary zone electrophoresis, 372 (1998) 291

# Moclobemide-selective membrane electrode

Lauryl sulphate as counter ion for construction of ion-selective membrane electrodes for moclobemide and disopyramide, 350 (1997) 105

#### Mode

Europium binding by fulvic acids, 369 (1998) 171

## Model compounds

Model compounds for the determination of organic and total phosphorus dissolved in natural waters, 318 (1996) 385

## Model identification

Evolving polynomial regression and error analysis in model identification and determination of consecutive stability constants using voltammetric methods, 325 (1996) 135

#### Model membranes

HPLC in the characterisation of conformational species of linear gramicidins, 352 (1997) 309

#### Model selection

Genetic algorithms as a method for variable selection in multiple linear regression and partial least squares regression, with applications to pyrolysis mass spectrometry, 348 (1997) 71

## **Model solutions**

Effect of the competition of copper and cobalt on the lability of Ni(II)-organic ligand complexes. Part I. In model solutions containing Ni(II) and a well-characterized fulvic acid, 395 (1999) 309

## Modelling

A computer program for searching the best model for describing different experimental systems, 340 (1997) 267

Multivariate nonlinear modelling of fluorescence data by neural network with hidden node pruning algorithm, 344 (1997) 29

Global treatment of chromatographic data with MICHROM, 348 (1997) 187

Neural networks as a tool for modelling the retention behaviour of dihydropyridines in micellar liquid chromatography, 353 (1997) 367

Study of structure-toxicity relationship by a counterpropagation neural network, 384 (1999) 319

#### Modified

Disposable thick film modified graphite electrodes for stripping voltammetry, 349 (1997) 85

## Modified atmosphere

On-line analysis of sample atmospheres using membrane inlet mass spectrometry as a method of monitoring vegetable respiration rate, 394 (1999) 43

## Modified electrodes

Amperometric glyceride biosensor, 330 (1996) 159

Calibration of an array of voltammetric microelectrodes, 334 (1996) 93

Voltammetric characterisation of an insoluble tetrathiafulvalene derivative by means of modified carbon paste electrode, 336 (1996) 77

Three-dimensional plots from osmium redox-polymer based electrochemical sensors, 344 (1997) 159

[Os(bpy)<sub>2</sub>(PVI)<sub>10</sub>Cl]Cl polymer-modified carbon fiber electrodes for the electrocatalytic oxidation of NADH, 345 (1997) 51

Stripping voltammetric determination of mercury at modified solid electrodes. I. Development of the modified electrodes, 371 (1998) 145 Electrocatalysis of the oxidation of alcohol and phenol derivative pollutants at vitreous carbon electrode coated by nickel macrocyclic complex-based films, 378 (1999) 159

Zeolite-modified electrodes in electroanalytical chemistry, 384 (1999) 1

Poly(methylene blue) modified electrode sensor for haemoglobin, 385 (1999) 119

Determination of sulfur dioxide in wines by gas-diffusion flow injection analysis utilizing modified electrodes with electrostatically assembled films of tetraruthenated porphyrin, 387 (1999) 175.

Stripping voltammetric determination of mercury at modified solid electrodes. Determination of mercury traces using PDC/Au(III) modified electrodes, 396 (1999) 195

## Modified glassy carbon electrode

Poly(pyrogallol) film on glassy carbon electrode for selective preconcentration and stripping voltammetric determination of Sb(III), 373 (1998) 15

## Modified Hummer-Dryer method

Quantitative analysis of human serum albumin-drug interactions using reversed-phase and ion-exchange liquid chromatography, 378 (1999) 77

## Modified silica

Use of column with modified silica for interfering retention in a FIA spectrophotometric method for direct determination of vitamin C in medicine, 366 (1998) 11

Biosensor for phenol based on the direct electron transfer blocking of peroxidase immobilising on silica-titanium, 390 (1999) 65

## Modified simplex method

Design and evaluation of an improved simplex method, 371 (1998) 9 Design and evaluation of an effective modified simplex method, 391 (1999) 257

# **Modified Soxhlet extractor**

A multivariate study of the performance of a microwave-assisted Soxhlet extractor for olive seeds, 382 (1999) 309

#### Modifier

Development of a novel supercritical fluid extraction procedure for lanolin extraction from raw wool, 381 (1999) 39

#### Moisture

Infrared study of the interactions of moisture with filter paper and the moisture quenching of solid-matrix room temperature phosphorescence, 324 (1996) 61

## Molecular composition

Multi-method characterization of lake aquatic humic matter isolated with two different sorbing solids, 363 (1998) 235

Multimethod characterization of lake aquatic humic matter isolated with sorbing solid and tangential membrane filtration, 364 (1998)

# Molecular connectivity index

Effect of solvent properties on the dispersion coefficient in an online microwave flow-injection system, 314 (1995) 213

## Molecular deposition

Selective potentiometric determination of copper(II) ions by use of a molecular deposition film electrode based on water-soluble copper phthalocyanine, 312 (1995) 207

#### Molecular descriptors

Selection of molecular descriptors used in quantitative structure-gas chromatographic retention relationships II. Isoalkanes and alkenes, 323 (1996) 15

#### Molecular diagnosis

Quantitative analysis by the polymerase chain reaction using fluorescence correlation spectroscopy, 365 (1998) 43

# Molecular diffusion

Optical saturation, diffusion and convection effects in thermal lens spectrometry, 307 (1995) 145

## Molecular emission cavity analysis

Study on S<sub>2</sub> emission response from sulphones and sulphonic acids in molecular emission cavity analysis, 315 (1995) 371

Determination of microgram amounts of free sulphur in transition metal sulphides using solvent extraction and molecular emission cavity analysis, 327 (1996) 139

## Molecular formula

Spectroscopic determination of elemental composition of organic compounds with the aid of the X-PERT system, 388 (1999) 353

#### Molecular graph structural descriptor

The neural network MolNet prediction of alkane enthalpies, 384 (1999) 271

## Molecular imprinting

Metal ion mediated recognition in molecularly imprinted polymers, 335 (1996) 71

2-(Trifluoromethyl)acrylic acid: a novel functional monomer in non-covalent molecular imprinting, 343 (1997) 1

Molecularly imprinted polymeric membranes involving tetrapeptide EQKL derivatives as chiral-recognition sites toward amino acids, 365 (1998) 59

Synthesis of castasterone selective polymers prepared by molecular imprinting, 365 (1998) 75

Molecular imprint membranes of polyacrylonitrile copolymers with different acrylic acid segments, 365 (1998) 81

Study of the nature of recognition in molecularly imprinted polymer selective for 2-aminopyridine, 381 (1999) 85

Binding study on 5,5-diphenylhydantoin imprinted polymer constructed by utilizing an amide functional group, 394 (1999) 353

Application of indoleacetic acid-imprinted polymer to solid phase extraction, 395 (1999) 251

## Molecular interactions

Applications of gel electrophoresis in the determination of proteinlow  $M_r$  substances and protein-protein interactions, 372 (1998) 67

## Molecular modelling

Octanol-water partition coefficients of substituted phenols and their correlation with molecular descriptors, 315 (1995) 193

Liquid chromatographic and infrared studies on ethylenediamineplatinum(II) guanosine complexes, 324 (1996) 155

#### Molecular models

Enzyme-immunoassays for polychlorinated biphenyls: structural aspects of hapten-antibody binding, 347 (1997) 163

## Molecular orbital calculations

Complexes of Zn(II) and Cd(II) with 4-(2-pyridylazo)resorcinol sorbed on sephadex QAE: characterization and theoretical study, 389 (1999) 281

#### Molecular orbitals

Fast calculation of  $\pi$ -electron charge densities in organic molecules: Non-condensed compounds, 314 (1995) 101

## Molecular parameters

Application of inverse gas chromatography to characterisation of a polypyrrole surface, 363 (1998) 147

## Molecular recognition

Metal ion mediated recognition in molecularly imprinted polymers, 335 (1996) 71

Study of the nature of recognition in molecularly imprinted polymer selective for 2-aminopyridine, 381 (1999) 85

Isomer recognizing adsorption of palladium(II)-2-(5-bromo-2-pyridylazo)-5-diethylaminophenol with diazine derivatives at the toluene-water interface, 394 (1999) 23

Ionophores, ligands and reactands, 400 (1999) 65

## Molecular size distribution

Molecular size distribution and spectroscopic properties of aquatic humic substances, 337 (1997) 133

# Molecular spectroscopy

Spectroscopic determination of elemental composition of organic compounds with the aid of the X-PERT system, 388 (1999) 353

## Molecular structure

Molecular challenges in modern chemometrics, 400 (1999) 413

# Molecular structure elucidation

MOLGEN\*, a generator of connectivity isomers and stereoisomers for molecular structure elucidation, 314 (1995) 141

## Molecular weight

Pore gradient gel electrophoresis: theory, practice, and applications, 372 (1998) 91

Electrophoretic methods for the isolation and characterization of enzymes, 383 (1999) 109

## Molecular weight estimation

Size-exclusion high-performance liquid chromatography of peptides: a review, 352 (1997) 387

## Molecularly imprinted polymers

Selective recognition of atrazine by molecularly imprinted polymer membranes. Development of conductometric sensor for herbicides detection, 392 (1999) 105 Molecularly imprinted ion exchange resin for purification, preconcentration and determination of { UO}<sub>2</sub><sup>2+</sup>by spectrophotometry and plasma spectrometry, 397 (1999) 173

#### MOLGEN\*

MOLGEN\*, a generator of connectivity isomers and stereoisomers for molecular structure elucidation, 314 (1995) 141

#### MolNet

The neural network MolNet prediction of alkane enthalpies, 384 (1999) 271

#### Molybdate

Synergetic catalytic effect of molybdate and tungstate on the hydrogen peroxide-iodide system and its analytical applications, 303 (1995) 241

#### Molybdate form anion exchange resin

Determination of selenium content in natural water by graphite furnace atomic absorption spectrometry after preconcentration with molybdate-form anion exchange resin, 351 (1997) 319

## Molybdate-selective electrode

Molybdate sensor based on 5,10,15,20-tetraphenylporphyrinatocobalt complex in a PVC matrix, 379 (1999) 201

#### Molybdenite concentrate

Determination of copper, iron, molybdenum and silicon in hydrometallurgically roasted molybdenite concentrate solution by inductively coupled plasma atomic emission spectrometry, 349 (1997) 327

## Molybdenum

Determination of molybdenum in sea water by solid-phase spectrophotometry, 304 (1995) 243

Determination of molybdenum using polarographic catalytic current, 309 (1995) 73

Determination of molybdenum in various materials by normal-phase liquid chromatography using N-benzoyl-N-phenylhydroxylamine, 309 (1995) 157

Determination of molybdenum in human urine by electrothermal atomization atomic absorption spectrometry, 310 (1995) 189

Spectrophotometric determination of molybdenum in steel samples utilizing selective sorbent extraction on Amberlite XAD-8 resin, 322 (1996) 111

Search for chemical separation of element 106 homologues in HF and HF-HCl media, 332 (1996) 257

A new method for the voltammetric determination of molybdenum(VI) using carbon paste electrodes modified in situ with cetyltrimethylammonium bromide, 350 (1997) 319

Determination of trace amounts of molybdenum in water samples by graphite furnace atomic absorption spectrometry with multiple injections and cool down step, 353 (1997) 85

Voltammetric detection of MoO<sup>2-4</sup> at a modified carbon paste electrode containing chitin, 353 (1997) 301

Electrothermal atomic absorption spectrometric determination of molybdenum, aluminium, chromium and manganese in milk, 356 (1997) 267 Simultaneous adsorptive stripping voltammetric determination of molybdenum(VI), uranium(VI), vanadium(V), and antimony(III), 394 (1999) 81

Selective determination of ultra trace concentrations of molybdenum by catalytic adsorptive stripping voltammetry, 396 (1999)

## Molybdenum blue method

Interference from chromate, germanate, tungstate and vanadate when determining phosphate in aqueous solution by the phosphoantimonylmolybdenum blue method, 358 (1998) 245

# Molybdenum trace

Kinetic-catalytic-spectrophotometric determination of low concentrations of molybdenum in white wines, 390 (1999) 255

#### Molybdenum tube atomizer

Electrothermal atomic absorption spectrometric determination of lead in calcium drug samples by direct atomization technique, 362 (1998) 279

## Molybdenum(VI)

Kinetic-mechanistic study of the chlorpromazine-hydrogen peroxide reaction catalyzed by molybdenum(VI) and tungsten(VI), and their differential determination, 349 (1997) 43

## 12-Molybdophosphoric

Fabrication of a chemically modified electrode containing 12-molybdophosphoric acid by the sol-gel technique and its application as an amperometric detector for iodate, 394 (1999) 73

## Molybdosilicic acid

Sorption-photometric determination of ascorbic acid using molybdosilicic heteropolyacid and polyurethane foam after microwave irradiation, 373 (1998) 131

## Moments method

Determination of the diffusion coefficient of 1-(2'-pyridylazo)-2naphthol in ethanol-water solutions using flow injection and nuclear magnetic resonance techniques, 386 (1999) 137

#### Monenzyme and bienzyme membranes

Chemiluminometric enzyme sensors for flow-injection analysis, 303 (1995) 109

## Monitor

Stripping voltammetry for the determination of trace metal speciation and in-situ measurements of trace metal distributions in marine waters, 400 (1999) 381

## Monitoring

Enzyme immunoassay using peroxidase as a label and a dip-strip test for monitoring residual bacitracin in chicken plasma, 346 (1997) 207

Analyzing time varying flow composition using multiple input chromatography, 348 (1997) 203

In vivo glucose monitoring with open microflow – influences of fluid composition and preliminary evaluation in man, 385 (1999) 23

## Monitoring physiologic

Slow ultrafiltration for continuous in vivo sampling: application for glucose and lactate in man, 379 (1999) 327

## Monitoring tape

Development of a monitoring tape for ammonia gas in air by fluorescence detection, 302 (1995) 201

## Mono- and bi-enzymatic

Analysis of several real matrices using new mono-, bi-enzymatic, or inhibition organic phase enzyme electrodes, 393 (1999) 109

## Mono- and diamines

Pulsed electrochemical detection at gold electrodes applied to monoamines and diamines following their chromatographic separation, 322 (1996) 55

## Mono- and oligosaccharides

Simultaneous amperometric determination of some mono-, di-, and oligosaccharides in flow injection and liquid chromatography using two working enzyme electrodes with different selectivity, 349 (1997) 179

#### Monoacid

Sodium-selective electrodes based on triester monoacid derivatives of p-tert-butylcalix[4]arene. Comparison with tetraester calix[4]arene ionophores, 336 (1996) 1

#### Monobutyltin

The electrochemistry of monobutyltin and mixtures of butyltin compounds at mercury electrodes in aqueous media, 310 (1995) 109

Improvement of extraction recovery for the monobutyltin species from sediment, 320 (1996) 165

## Monobutyltin extraction

Evaluation of sample preparation methods for organotin speciation analysis in sediments - focus on monobutyltin extraction, 317 (1995) 161

#### Monoclonal antibodies

Determination of carbohydrate heterogeneity in the humanised antibody CAMPATH 1H by liquid chromatography and matrix-assisted laser desorption ionisation mass spectrometry, 306 (1995) 43

Reusable solid phase immunoassay for the detection of citrate lyase, 320 (1996) 77

Detection of the red tide-causing plankton Chattonella marina using a piezoelectric immunosensor, 325 (1996) 73

Determination of corproporphyrin in urine by using stopped-flow fluoroimmunoassay, 361 (1998) 27

Diphenylurea hapten sensing with a monoclonal antibody and its Fab fragment: Kinetic and thermodynamic investigations, 362 (1998) 101

Preparation of a specific monoclonal antibody against 2'-deoxycytidine, 365 (1998) 121

Preparation of monoclonal antibody against p-3-methoxy-4-hydroxyphenylglycol, 365 (1998) 129

Stabilization of enzyme immunoassays for atrazine, 362 (1998) 35 Immunoassays for metal ions, 376 (1998) 13

Affinity between immobilised monoclonal and polyclonal antibodies and steroid-enzyme tracers increases sharply at high surface density, 381 (1999) 133

Development of homogeneous phase-modulation fluoroimmunoassay for 2,4-dichlorophenoxyacetic acid, 395 (1999) 133

#### Monoclonal antibody 10c10

Flow injection immunosensing of polycyclic aromatic hydrocarbons with a quartz crystal microbalance, 387 (1999) 29

## Monograde and multigrade lubricating oils

Isolation of polybutenylsuccinimide-type dispersant from monograde and multigrade lubricating oils by classical liquid-adsorption chromatography on a Florisil column, 314 (1995) 161

## Monograde and multigrade oils

Liquid chromatographic determination of base oil composition and content in lubricating oils containing dispersants of the polybutenylsuccinimide type, 306 (1995) 73

## Monograin layer

Factors affecting the analytical applications of zeolite-modified electrodes Preconcentration of electroactive species, 340 (1997) 61

#### Monolayers

Surface-enhanced Raman scattering from functionalized selfassembled monolayers Part 1. Distance dependence of enhanced Raman scattering from a terminal phenyl group, 307 (1995) 333

Modified electrode surfaces for catalytic reduction of carbon dioxide, 396 (1999) 1

# Monomethylarsonate

On-line ion exchange system coupled to inductively coupled plasma atomic emission spectrometer with ultrasonic nebulization for the separation, preconcentration and determination of arsenic(V) and monomethylarsonate, 313 (1995) 243

## Monosegmented flow

Sampling strategies in sequential injection analysis: Exploiting the monosegmented-flow approach, 366 (1998) 257

Automatic potentiometric titration in monosegmented flow system exploiting binary search, 387 (1999) 165

## Monosegmented flow analysis

Simultaneous multiple injection in monosegmented flow analysis, 371 (1998) 317

Monosegmented flow system exploiting multicommutation applied to spectrophotometric determination of manganese in soybean digests, 386 (1999) 129

# Monosegmented flow system

Determination of gaseous species by monosegmented flow systems. Volumetric determination of oxygen and carbon dioxide, 349 (1997) 377

Determination of CO<sub>2</sub> in gaseous samples using a monosegmented flow system and conductimetric detection, 366 (1998) 223

## Monovalent and divalent cations

Indirect photometric detection of inorganic monovalent and divalent cations by microcolumn ion chromatography using 1,1'-dimethyl-4,4'-bipyridinium dichloride as visualization agent, 379 (1999) 33

#### Monovalent cations

Microcolumn ion chromatography of inorganic monovalent cations with indirect photometric detection and a silica gel column, 334 (1996) 39

## Monoxide flame emission spectrometry

Studies on monoxide flame emission spectrometry of rareearth elements. Part 2. Determination of yttrium in rare-earth concentrates by the dual wavelength method, 344 (1997) 291

# Monoxide vapor emission spectrometry

Studies on monoxide emission spectrometry of rare-earth elements.

IV. Simultaneous determination of Sm, Eu, Gd in Sm-Eu-Gd concentrates by the dual wavelength method, 350 (1997) 365

## Monte Carlo method

Study on total luminescence spectra. Application of the Monte-Carlo method to three-dimensional synchronous fluorescence spectrometry, 306 (1995) 307

A simple model for predicting the pH values of acidic natural waters, 314 (1995) 111

## Montmorillonite

Biosensoring of hydrogen peroxide using new methylene blue N incorporated in a montmorillonite-modified horseradish peroxidase immobilization matrix as an electron shuttle, 332 (1996) 73

The use of voltammetry for sorption studies of heavy metals on mineral surfaces in presence of the siderophore desferrioxamine B, 392 (1999) 159

#### MOPAC

Simulation of infrared spectra using artificial neural networks based on semiempirical and empirical data, 331 (1996) 63

# Morin

Determination of trace gallium by derivative adsorption chronopotentiometry, 318 (1996) 181

## Morphine

Simple and highly sensitive determination of morphine in rat plasma by liquid chromatography with fluorescence detection, 387 (1999) 121

# MOSFET sensor

Enhanced selectivity of MOSFET gas sensors by systematical analysis of transient parameters, 353 (1997) 291

## Mössbauer spectroscopy

Characterization of dugong liver ferritin, 393 (1999) 235

## Motor oils

Characterization of engine motor oils dispersants of the polybutenylsuccinimide type by saponification, methylation and size exclusion chromatography, 322 (1996) 31

## Mouse antiserum

Development of an enzyme-linked immunosorbent assay for benalaxyl and its application to the analysis of water and wine, 392 (1999) 85

## Mouse myeloma cell

Preparation of monoclonal antibody against p-3-methoxy-4-hydroxyphenylglycol, 365 (1998) 129

# Moving curve fitting

Determination of mixtures of alpha emitting isotopes (242 Pu, 239-240 Pu, 238 Pu) by using liquid scintillation-moving curve fitting, 380 (1999) 83

# Moving median digial filter

Applying moving median digital filter to mass spectrometry and potentiometric titration, 310 (1995) 281

#### MPRSF

Study on the magnetic-polarization-resonance-synchronous-fluorimetry and its application to simultaneous determination of polycyclic aromatic hydrocarbons, 367 (1998) 11

#### mRN

Prediction of an antisense-effective target site on VEGFmRNA by using RNase H and a library of random oligonucleotides, 365 (1998) 55

#### MS/MS

Fragmentation of protonated oligopeptides XLDVLQ (X=L, H, K or R) by surface induced dissociation: additional evidence for the 'mobile proton' model, 397 (1999) 247

## MT-1

Quantitation of metallothionein isoforms in mouse liver on capillary zone electrophoresis, 372 (1998) 241

#### MT-2

Quantitation of metallothionein isoforms in mouse liver on capillary zone electrophoresis, 372 (1998) 241

## MTBE determination

Qualitative and quantitative determination of oxygenates in gasolines using <sup>1</sup>H nuclear magnetic resonance spectroscopy, 391 (1999) 277

## 99m-Technetium radiopharmaceutical kits

Polarographic determination of Sn(II) in samples containing Sn(IV) such as in 99m-Technetium radiopharmaceutical kits, 332 (1996) 67

# Multi Criterion Decision Making (MCDM)

Study of different criteria for the selection of a rugged optimum in high performance liquid chromatography optimisation, 348 (1997) 223

#### Multianalyte

Simultaneous determination of follicle stimulating hormone and luteinising hormone using a multianalyte immunosensor, 310 (1995) 251 A procedure for the immunoanalysis of samples containing one or more members of a group of cross-reacting analytes, 336 (1996) 175

## Multianalyte detection

Highly parallel affinity sensor for the detection of environmental contaminants in water, 393 (1999) 29

#### Multianalyte immunoassay

Simultaneous homogeneous immunoassay of phenytoin and phenobarbital using a Nafion-loaded carbon paste electrode and two redox cationic labels, 356 (1997) 195

#### Multianalyte system

Antibodies for immunosensors, 347 (1997) 177

#### Multichannel

New compact Echelle spectrographs with multichannel timeresolved recording capabilities, 380 (1999) 353

## Multichannel amperometric detection system

Multichannel amperometric detection system for liquid chromatography to assay the thiols in human whole blood using the platinum microelectrodes chemically modified by copper tetraaminophthalocyanine, 399 (1999) 213

## Multichannel analyser

Direct parallel flow injection multichannel spectrophotometric determination of olive oil peroxide value, 389 (1999) 239

#### Multichannel electrochemical detection

Glucose detection at bare and sputtered platinum electrodes coated with polypyrrole and glucose oxidase, 335 (1996) 209

## Multichannel potentiometric monitoring

Signal filtering of potentiometric stripping analysis using Fourier techniques, 338 (1997) 167

# Multichannel sensor

A multichannel immunochemical sensor for determination of 2,4dichlorophenoxyacetic acid, 316 (1995) 73

# Multicommutated flow system

Photochemical-fluorimetric determination of folic acid in a multicommutated flow system, 351 (1997) 223

A multicommutated flow system with on-line compensation of the Schlieren effect applied to the spectrophotometric determination of pindolol, 366 (1998) 209

Continuous sample recirculation in an opened-loop multicommutated flow system, 377 (1998) 103

#### Multicommutation

Multicommutation in flow analysis. Part 3. Spectrophotometric kinetic determination of creatinine in urine exploiting a novel zone sampling approach, 310 (1995) 447

Multicommutation in flow analysis. Part 4. Computer-assisted splitting for spectrophotometric determination of copper and zinc in plants, 332 (1996) 173

Multicommutation in flow analysis. Part 5: Binary sampling for sequential spectrophotometric determination of ammonium and phosphate in plant digests, 334 (1996) 287

Flow analysis with accuracy assessment, 350 (1997) 31

Automatic multicommutation flow system for wide range spectrophotometric calcium determination, 366 (1998) 45

Multicommutation in flow analysis. Part 6. Binary sampling for wide concentration range turbidimetric determination of sulphate in plant digests, 366 (1998) 251

Multicommutation in flow analysis exploiting a multizone trapping approach: spectrophotometric determination of boron in plants, 374 (1998) 53

Monosegmented flow system exploiting multicommutation applied to spectrophotometric determination of manganese in soybean digests, 386 (1999) 129

Automatic potentiometric titration in monosegmented flow system exploiting binary search, 387 (1999) 165

Environmentally friendly analytical chemistry through automation: comparative study of strategies for carbaryl determination with p-aminophenol, 392 (1999) 265

## Multicomponent analysis

Interactive rank annihilation: a graphic approach to quantification in grey multicomponent systems, 316 (1995) 225

Multicomponent flow injection based analysis with diode array detection and partial least squares multivariate calibration evaluation. Rapid determination of Ca(II) and Mg(II) in waters and dialysis liquids, 320 (1996) 177

Multicomponent analysis of sodium cuprate, NaCuO<sub>2-x</sub>, having a high Cu(III) content, 334 (1996) 103

Multivariate calibration transfer applied to the routine polarographic determination of copper, lead, cadmium and zinc, 348 (1997) 51

Use of pH gradients in continuous-flow systems and multivariate regression techniques applied to the determination of methionine and cysteine in pharmaceuticals, 348 (1997) 151

Simultaneous spectrophotometric determination of chlorpromazine, perphenazine and acetopromazine by use of the kinetic wavelength pair-method, 349 (1997) 33

Resolution of highly overlapping differential pulse anodic stripping voltammetric signals using multicomponent analysis and neural networks, 350 (1997) 163

Quality of resolution of black multicomponent systems, 390 (1999)

## Multicomponent equilibria

Quantitative spectral analysis of multicomponent equilibria, 302 (1995) 121

## Multicomponent gas analysis

Multicomponent gas analysis of a mixture of chloroform, octane and toluene using a piezoelectric quartz crystal sensor array, 393 (1999) 67

# Multicomponent kinetic methods

Application of micellar effects to the simultaneous kinetic determination of pyridoxal and pyridoxal-5'-phosphate, 345 (1997) 87

## Multicomponent mixtures

Application of the Davidon-Fletcher-Powell algorithm to the resolution of multicomponent mixtures using UV-vis spectrophotometry, 327 (1996) 145

## Multidimensional variance and discriminant analysis

Multivariate evaluation of inhibition studies on an enzyme electrodes system with pesticides and mixtures of mercury and pesticides, 325 (1996) 1

## Multidrug resistance

Micellar electrokinetic chromatography of highly hydrophobic peptides, 372 (1998) 273

#### Multi-element analysis

Optimised simultaneous multi-element analysis of environmental slurry samples by inductively coupled plasma atomic emission spectrometry using a segmented array charge-coupled device detector, 311 (1995) 123

Multi-element analysis of airborne particulate matter by various spectrometric methods after microwave digestion, 320 (1996) 207

Semi-quantitative panoramic analysis of industrial samples by inductively coupled plasma mass spectrometry, 355 (1997) 105

## Multielement determination

Preparation of airborne particulate standards on PTFE-membrane filter for laser ablation inductively coupled plasma mass spectrometry, 368 (1998) 11

## Multielemental analysis

Multivariate experimental methodology for the evaluation of sample preparation techniques used in simultaneous multielemental analysis using total reflection X-ray fluorescence spectroscopy, 376 (1998) 145

## Multi-enzymatic electrochemical sensors

Multi-enzymatic electrochemical sensor: field measurements and their optimisation, 385 (1999) 461

## Multi-enzyme electrode

Dual electrode signal-subtracted biosensor for simultaneous flow injection determination of sucrose and glucose, 380 (1999) 7

#### Multifactor design

Separation of barbiturates in micellar liquid chromatography by means of a multifactor design, 356 (1997) 19

# Multifunctional membrane

Poly(o-phenylenediamine) ultra-thin polymer-film composite membranes for enzyme electrodes, 357 (1997) 55

# Multigrade lubricating oils

Isolation of polybutenylsuccinimide-type dispersants from multigrade lubricating oils by classical cation exchange chromatography, 339 (1997) 109

## Multi-ion sensor flow cell

Flow injection discrimination of the chloride interference with Cu(II) electrode function of chalcogenide based solid-state copper ion-selective electrodes, 362 (1998) 221

# Multilayer

Sulfate ion sensing based on a quartz-crystal microbalance immobilized with barium sulfate crystals grown on a self-assembled monolayer of phosphorylated 11-mercapto-1-undecanol, 375 (1998) 155

## Multilayer feed forward network

Multivariate nonlinear modelling of fluorescence data by neural network with hidden node pruning algorithm, 344 (1997) 29

Neural network learning to non-linear principal component analysis, 336 (1996) 209

Uniform design applied to nonlinear multivariate calibration by ANN, 370 (1998) 65

#### Multilayer feedforward backpropagation

Comparison of an adaptive resonance theory based neural network (ART-2a) against other classifiers for rapid sorting of post consumer plastics by remote near-infrared spectroscopic sensing using an InGaAs diode array, 317 (1995) 1

## Multilinear regression

Octanol-water partition coefficients of substituted phenols and their correlation with molecular descriptors, 315 (1995) 193

Calibration line adjustment to facilitate the use of synthetic calibration samples in near-infrared spectrometric analysis of pharmaceutical production samples, 315 (1995) 257

# Multilinear stepwise regression analysis

Application of neural networks for response surface modeling in HPLC optimization, 364 (1998) 265

## Multi-parametric determinations

A new approach for compensating concentration gradients in flow analysis, 331 (1996) 17

# Multiple flow reversals

Determination of iron(III) in pharmaceutical samples using dialysis in a sequential injection analysis system, 357 (1997) 141

# Multiple injections

Determination of trace amounts of molybdenum in water samples by graphite furnace atomic absorption spectrometry with multiple injections and cool down step, 353 (1997) 85

# Multiple input chromatography

Monitoring time-varying concentrations in sample streams by multiple input chromatography, 346 (1997) 285

# Multiple input/correlation chromatography

Monitoring of randomly varying chemical processes by correlation chromatography, 373 (1998) 175

## Multiple linear regression

Multivariate calibrations in Fourier transform infrared spectrometry for prediction of kerosene properties, 317 (1995) 95

Determination of copper, iron, molybdenum and silicon in hydrometallurgically roasted molybdenite concentrate solution by inductively coupled plasma atomic emission spectrometry, 349 (1997) 327

Application of Fourier transform to multivariate calibration of nearinfrared data, 364 (1998) 253

# Multiple linear regression analysis

Advantages of target factor analysis against multiple linear regression methods for testing model equations in linear free energy relationships, 312 (1995) 295

The simulation of <sup>13</sup>C nuclear magnetic resonance spectra of dibenzofurans using multiple linear regression analysis and neural networks, 321 (1996) 127

## Multiple linear regression method

Correction for the effects of viscoelastic changes in a piezoelectric quartz crystal by the multiple linear regression method, 343 (1997) 85

# Multiple microelectrode arrays

Theoretical treatment of the amperometric current response of multiple microelectrode arrays, 330 (1996) 139

## Multiple pathways

The relative significance of multiple pathways in peroxyoxalate chemiluminescence reactions, 329 (1996) 117

## Multiple peptide antigen

Analysis of the perturbation of phospholipid model membranes by a multiple antigenic peptide, 303 (1995) 57

# Multiplex NMR

Multiplex sample NMR: an approach to high-throughput NMR using a parallel coil probe, 397 (1999) 9

## Multiplex Sample NMR

NMR analysis of multiple samples using parallel coils: improved performance using reference deconvolution and multidimensional methods, 400 (1999) 297

#### Multisample

Optimization of a charge coupled device imaging enzyme linked immuno sorbent assay and supports for the simultaneous determination of multiple 2,4-D samples, 347 (1997) 87

## Multisensor system

Chemical sensor array for multicomponent analysis of biological liquids, 385 (1999) 131

## Multi-staged bioreactor

Rapid estimation of biochemical oxygen demand using a microbial multi-staged bioreactor, 313 (1995) 221

#### Multivariate analysis

The simultaneous speciation of aluminium and iron in a flowinjection system, 306 (1995) 5

Pollution of a river basin and its evolution with time studied by multivariate statistical analysis, 310 (1995) 15

Study of interferences in graphite furnace atomic absorption spectrometry by means of experimental design, 327 (1996) 47

Terrigenous debris and mussel pollution – a differentiation based on trace element concentration by means of multivariate analysis, 344 (1997) 251

Linear and non-linear multivariate analysis in the quality control of industrial titanium dioxide white pigment, 348 (1997) 87

Multivariate experimental methodology applied to the calibration of a Clark type oxygen sensor, 355 (1997) 43 Empirical modelling of interferences in electrothermal atomization atomic absorption spectrometry, 376 (1998) 293

Complexation of cadmium by the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: study by differential pulse polarography and circular dichroism spectroscopy with multivariate curve resolution analysis, 390 (1999) 15

Multivariate data analysis of key pollutants in sewage samples: a case study, 393 (1999) 181

## Multivariate calibration

Preconcentration and flow-injection multivariate determination of priority pollutant chlorophenols, 308 (1995) 238

Simultaneous determination of plutonium alpha emitters by liquid scintillation counting using multivariate calibration, 310 (1995) 297

Selection of calibration mixtures and wavelengths for different multivariate calibration methods, 313 (1995) 93

Robust regression used for the treatment of partial non-linearity in multivariate calibration, 313 (1995) 185

Detection of flow injection analysis with pH gradient by acoustooptic tunable filter based spectrophotometry, 319 (1996) 315

Simultaneous adsorptive voltammetric analysis of mixed colorants by multivariate calibration approach, 329 (1996) 65

Detection of inhomogeneities in sets of NIR spectra, 330 (1996) 1 Classical versus multivariate calibration for a beta emitter (<sup>14</sup>C) activity determination by liquid scintillation counting, 331 (1996) 33

Genetic-algorithm-based wavelength selection in multicomponent spectrometric determinations by PLS: application on indomethacin and acemethacin mixture, 339 (1997) 63

Simultaneous flow injection analysis of cadmium and lead with differential pulse voltammetric detection, 340 (1997) 149

Simultaneous spectrophotometric determination of ethinylestradiol and levonorgestrel by partial least squares and principal component regression multivariate calibration, 340 (1997) 257

Calibration methods for determination of ammonium and excess acid in Kjeldahl digests by flow injection analysis, 343 (1997) 183

Flow methods for the determination of polycyclic aromatic hydrocarbons using low power photomultiplier tube and charge coupled device chemiluminescence detection, 346 (1997) 113

Calibration method choice by comparison of model basis functions to the theoretical instrumental response function, 348 (1997)

Multivariate calibration transfer applied to the routine polarographic determination of copper, lead, cadmium and zinc, 348 (1997) 51

Genetic algorithms as a method for variable selection in multiple linear regression and partial least squares regression, with applications to pyrolysis mass spectrometry, 348 (1997) 71

Figures of merit in multivariate calibration. Determination of four pesticides in water by flow injection analysis and spectrophotometric detection, 348 (1997) 167

Diffuse reflectance absorbance spectroscopy taking in chemometrics (DRASTIC). A hyperspectral FT-IR-based approach to rapid screening for metabolite overproduction, 348 (1997) 273

On mass spectrometer instrument standardization and interlaboratory calibration transfer using neural networks, 348 (1997) 511 Correction of non-linearities in spectroscopic multivariate calibration by using transformed original variables and PLS regression, 349 (1997) 271

Metal cyanide control in hydrometallurgical processing of gold ores by multivariate calibration procedures, 353 (1997) 123

Determination of accelerators and antioxidants in vulcanized rubber by fourier transform infrared spectrophotometry, 353 (1997) 351

Simultaneous determination of mixtures of metal ions by complexometric titration and multivariate calibration, 354 (1997) 233

Quantitative multicomponent analysis of polycyclic aromatic hydrocarbons in water samples, 361 (1998) 233

Simultaneous determination of α-amylase and amyloglucosidase activities using flow injection analysis with fourier transform infrared spectroscopic detection and partial least-squares data treatment, 366 (1998) 35

Variable selection in wavelet regression models, 368 (1998) 29

Multivariate calibration of polycyclic aromatic hydrocarbon mixtures from excitation-emission fluorescence spectra, 373 (1998)

The optimal brain surgeon for pruning neural network architecture applied to multivariate calibration, 375 (1998) 187

Detection of nonlinearity in multivariate calibration, 376 (1998) 153

Application and comparisons of chemometric techniques for calibration modelling using electrochemical/ICP-MS data for trace elements in UHQ water and humic acid matrices, 378 (1999) 235

Determination of a mixture of gamma-emitting radionuclides using solid scintillation detectors and multivariate calibration, 379 (1999) 121

Determination of a mixture of gamma-emitting radionuclides using solid scintillation detectors and multivariate calibration, 379 (1999) 121

Matrix effect modelling in multivariate determination of priority pollutant chlorophenols in urine samples, 381 (1999) 93

Notes on two competing definitions of multivariate sensitivity, 381 (1999) 103

Use of near-infrared spectrometry in control analyses of acrylic fibre manufacturing processes, 383 (1999) 291

Determination of theophylline in blood serum by UV spectrophotometry and partial least-squares (PLS-1) calibration, 384 (1999)

Artificial neural networks (ANNs) in the analysis of polycyclic aromatic hydrocarbons in water samples by synchronous fluorescence, 384 (1999) 261

A novel peak-hopping stepwise feature selection method with application to Raman spectroscopy, 388 (1999) 251

Detection of prediction outliers and inliers in multivariate calibration, 388 (1999) 283

Application of Kalman filtering to multivariate calibration and drift correction, 388 (1999) 315

Correction of non-linearities in spectroscopic multivariate calibration by using transformed original variables. Part II. Application to principal component regression, 389 (1999) 115

Simultaneous determination of halide and thiocyanate ions by potentiometric precipitation titration and multivariate calibration, 390 (1999) 117

Simultaneous determination of enzyme activities by FTIR-spectroscopy in an one-step assay, 391 (1999) 19

Chemometrics: the issues of measurement and modelling, 400 (1999) 399

#### Multivariate curve resolution

Study of acid-base properties of fulvic acids using fluorescence spectrometry and multivariate curve resolution methods, 310 (1995) 473

Continuous flow titration system for the generation of multivariate spectrophotometric data in the study of acid-base equilibria, 312 (1995) 189

Second order multivariate curve resolution applied to the flow injection analysis of mixtures of amino acids, 335 (1996) 41

Application of multivariate curve resolution to the voltammetric data Factor analysis ambiguities in the study of weak consecutive complexation of metal ion with ligand, 341 (1997) 105

Study of the acid-base equilibria and conformational changes of double stranded polyadenylic-polyuridylic acid in aqueous solution, 363 (1998) 119

Multivariate curve resolution analysis of voltammetric data obtained at different time windows: study of the system Cd<sup>2+</sup>-nitrilotriacetic acid, 371 (1998) 23

Calibration methods for complex second-order data, 398 (1999) 237

# Multivariate data analysis

Using multivariate methods on solid-state <sup>13</sup>C NMR data of complex materials, 315 (1995) 1

#### Multivariate evaluation

Multivariate data analysis as a tool for evaluating emission intensity, background equivalent concentration and detection limit obtained for different plasma positions in direct current plasma-atomic emission spectrometry, 354 (1997) 211

## Multivariate study

A multivariate study of the performance of a microwave-assisted Soxhlet extractor for olive seeds, 382 (1999) 309

#### Multiwavelength regression

A contribution to the derivative ratio spectrum method, 317 (1995) 83

#### Museums

A diffusion tube sampler for the determination of acetic acid and formic acid vapours in museum cabinets, 341 (1997) 11

## Mussel pollution

Terrigenous debris and mussel pollution – a differentiation based on trace element concentration by means of multivariate analysis, 344 (1997) 251

#### Mussel samples

High-performance liquid chromatography with electrochemical detection for the determination of vanadium(V) in river water and mussel samples, 327 (1996) 203

#### Mussels

Intercomparison of alkyllead compound determination in mussels and water by two analytical techniques: gas chromatography atomic absorption spectrometry and differential pulse anodic stripping voltammetry, 326 (1996) 57

## Mutagenic molecules

Affinity adsorption separation of mutagenic molecules by polyacrylamide hydrogels comprising double-stranded DNA, 365 (1998) 101

## Mutagenic polycyclic compounds

Detection of mutagenic polycyclic compounds using a piezoelectric quartz crystal coated with plasma-polymerized phthalocyanine derivatives, 337 (1997) 1

#### Mutagenicity

A strategy for the broad range detection of compounds with affinity for nucleic acids, 347 (1997) 79

#### Mutarotase

Amperometric biosensor sensitive to glucose and lactose based on co-immobilization of ferrocene, glucose oxidase, β-galactosidase and mutarotase in β-cyclodextrin polymer, 358 (1998) 137

#### Mutual information

Variable selection in wavelet regression models, 368 (1998) 29

## Mutual interference

Determination of zinc in environmental samples by anodic stripping voltammetry, 376 (1998) 197

#### Mycotoxins

Relevant physicochemical factors in chromatographic separation of Alternaria alternata mycotoxins, 370 (1998) 79

# Mytilus edulis

Improved quantification of stress proteins by western blotting, 311 (1995) 109

# N

## N-(β-carboxyl-propionyl)luminol

Study of electrogenerated chemiluminescence of N-(β-carboxylpropionyl)luminol, 375 (1998) 269

# N-(S-1-(α-naphthyl)ethylamino carbonyl-(R or S)-valine bonded aminopropyl silica gel

Enhancement effect of Brij-35 on the hemin-catalyzed fluorogenic reaction between hydrogen peroxide and N,N'-dicyanomethyl-ophenylenediamine, 369 (1998) 205

# N,N-Diethyldithiocarbamate

Adsorptive determination of copper(II) in solution as its N,Ndiethyldithiocarbamate on an electrode-separated piezoelectric quartz crystal, 343 (1997) 209

## 1-(N,N-Dimethylamine)-4-(4-morpholine)benzene

Direct electrocatalytic determination of dissolved peroxidases, 329 (1996) 231

# 4'-N,N-Dimethylaminoflavone-3-yl methacylate

Solvatochromogenic flavone dyes for the detection of water in acetone, 383 (1999) 299

# 4-N,N-Dimethylaminosulfonyl-7-chloro-2,1,3-benzoxadiazole (DBD-Cl)

4-N,N-Dimethylaminosulfonyl-7-N-(2-aminoethyl)aminobenzofurazan as a new precolumn fluorescence derivatization reagent for carboxylic acids (fatty acids and drugs containing a carboxyl moiety) in liquid chromatography, 344 (1997) 227

## 4-N,N-Dimethylaminosulfonyl-7-N-(2-aminoethyl)amino-2,1,3benzoxadiazole (DBD-ED)

4-N,N-Dimethylaminosulfonyl-7-N-(2-aminoethyl)aminobenzofurazan as a new precolumn fluorescence derivatization reagent for carboxylic acids (fatty acids and drugs containing a carboxyl moiety) in liquid chromatography, 344 (1997) 227

## N,N-Dimethylaniline

Flow-injection/standard subtraction method for the determination of iron(III) based on its catalytic effect and inhibition of EDTA, 374 (1998) 303

## Na, K, Mg, Ca

Determination of highly concentrated Na, K, Mg and Ca in dialysis solution with flow injection on-line dilution and flame atomic absorption spectrometry, 331 (1996) 263

#### N-Acetylneuraminic acid

Determination of free N-acetyl neuraminic acid by ultrafiltration and liquid chromatography in the serum of normal and cancer patients, 306 (1995) 65

An improved spectrophotometric method for the determination of free, bound and total N-acetylneuraminic acid in biological fluids, 327 (1996) 277

## NaCl solution

Calibration transfer from a scanning near-IR spectrophotometer to a FT-near-IR spectrophotometer, 349 (1997) 263

# NAD\*-dextran

Bi-enzyme amperometric d-lactate sensor using macromolecular NAD<sup>+</sup>, 315 (1995) 297

Reusable ethanol sensor based on a NAD\*-dependent dehydrogenase without coenzyme addition, 340 (1997) 143

#### NADH

Effect of surface-active agents on amperometric NADH measurements with chemically modified electrodes, 305 (1995) 65

Thermodynamics and kinetics of adsorption and electrocatalysis of NADH oxidation with a self-assembling quinone derivative, 309 (1995) 79

Catalytic oxidation of reduced nicotinamide adenine dinucleotide at a microband gold electrode modified with nickel hexacyanoferrate, 310 (1995) 145

The electrochemical polymerization of methylene green and its electrocatalysis for the oxidation of NADH, 329 (1996) 41

A coupled enzymatic assay for salicylate and acetylsalicylate using salicylate hydroxylase and tyrosinase, 335 (1996) 169

Electrochemical characteristics of a carbon-based thick-film L-lactate biosensor using L-lactate dehydrogenase, 336 (1996) 57

Electrocatalysis of NADH oxidation with electropolymerized films of nile blue A, 343 (1997) 69

[Os(bpy)<sub>2</sub>(PVI)<sub>10</sub>Cl]Cl polymer-modified carbon fiber electrodes for the electrocatalytic oxidation of NADH, 345 (1997) 51

Low-potential stable detection of β-NADH at sol-gel derived carbon composite electrodes, 360 (1998) 171

Development of an amperometric assay for NH<sub>4</sub><sup>+</sup> based on a chemically modified screen-printed NADH sensor, 373 (1998) 1

## NADH detection

Electrochemical detection of NADH and dopamine in flow analysis based on tetraruthenated porphyrin modified electrodes, 329 (1996) 91

#### NADH electrochemical oxidation

Electrochemical oxidation of NADH at a bare glassy carbon electrode in different supporting electrolytes, 385 (1999) 345

## NADH electro-oxidation

Amperometric glyceride biosensor, 330 (1996) 159

## NADH-phosphate adducts

Electrochemical oxidation of NADH at a bare glassy carbon electrode in different supporting electrolytes, 385 (1999) 345

#### Nafion "

Effect of model organic compounds on square-wave voltammetric stripping analysis at the Nafion/chelating agent mercury film electrodes, 310 (1995) 407

A regenerable pseudo-reagentless glucose biosensor based on Nafion polymer and 1,1'-dimethylferricinium mediator, 310 (1995) 419

Correlation between the electrical charge properties of polymeric membranes and the characteristics of ion field effect transistors or penicillinase based enzymatic field effect transistors, 331 (1996) 217

Square-wave voltammetric stripping analysis of lead(II) at a Nafion R/copper-mercury film electrode, 332 (1996) 59

Simultaneous determination of caffeine and acetaminophen in drug formulations by square-wave voltammetry using a chemically modified electrode, 342 (1997) 175

Reagentless amperometric biosensors highly sensitive to hydrogen peroxide, glucose and lactose based on N-methyl phenazine methosulfate incorporated in a Nafion film as an electron transfer mediator between horseradish peroxidase and an electrode, 344 (1997) 187

Voltammetric behaviour of dopamine at nickel phthalocyanine polymer modified electrodes and analytical applications, 354 (1997) 343

Voltammetric behaviour of dopamine at nickel phthalocyanine polymer modified electrodes and analytical applications, 356 (1997) 245

Cathodic stripping voltammetric determination of tellurium(IV) at a Nafion/8-quinolinol mercury film modified electrode, 358 (1998) 285 PAN-incorporated Nafion-modified spectroscopic graphite electrodes for voltammetric stripping determination of lead, 369 (1998) 93

Adsorptive potentiometric stripping analysis of dopamine on claymodified electrode, 372 (1998) 315

Amperometric determination of epinephrine with an osmium complex and Nafion double-layer membrane modified electrode, 378 (1999) 151

Improved stability and altered selectivity of tyrosinase based graphite electrodes for detection of phenolic compounds, 387 (1999)

A creatinine deiminase modified polyaniline electrode for creatinine analysis, 392 (1999) 143

A sensitive voltammetric method for the determination of parathion insecticide, 396 (1999) 39

#### Nation 117

Study of the extraction of 1-(2'-pyridylazo)-2-naphthol from ethanol-water solutions into Nafion \*\* membranes, 392 (1999) 201

Dissociation of Ferroin in acidic solutions and Nafion <sup>11</sup> membranes, 395 (1999) 27

#### Nafion films

Modified electrode surfaces for catalytic reduction of carbon dioxide, 396 (1999) 1

## Nafion membrane

Conductometric urea sensor. Use of additional membranes for the improvement of its analytical characteristics, 321 (1996) 35

Determination of chloride by flow injection spectrophotometry with membrane reagent introduction, 366 (1998) 147

## Nafion/ruthenium(III) chemically modified electrode

Catalytic oxidation and flow detection of hydrazine compounds at a nafion/ruthenium(III) chemically modified electrode, 354 (1997) 333

## Nafronyl

Phosphorimetric determination of nafronyl in pharmaceutical preparations, 382 (1999) 77

# Nalidixic acid

Stopped flow kinetic determination of nalidixic acid and norfloxacin based on lanthanide-sensitized fluorescence, 303 (1995) 39

Simultaneous estimation of nalidixic acid and metronidazole in dosage forms using packed column supercritical fluid chromatography, 376 (1998) 221

## Nanoscale science

An artificial nose based on a micromechanical cantilever array, 393 (1999) 59

#### Nanotechnology

Mercury-plated iridium-based microelectrode arrays for trace metals detection by voltammetry: optimum conditions and reliability, 329 (1996) 203

An artificial nose based on a micromechanical cantilever array, 393 (1999) 59

# Nanotitration

Universal coulometric nanotitrators with potentiometric detection, 361 (1998) 261

## N-9-Anthrylmethyl-N-methyl-N'-benzoylthiourea

An anthracene-substituted benzoylthiourea for the selective determination of Hg(II) in micellar media. 388 (1999) 19

## Naphthaldehydes

Continuous fluorimetric assay for human aldehyde dehydrogenase and its application to blood analysis, 319 (1996) 209

#### Naphthalene column preconcentration

Spectrophotometric determination of nitrate and nitrite in soil and water samples with a diazotizable aromatic amine and coupling agent using column preconcentration on naphthalene supported with ion-pair of tetradecyldimethylbenzylammonium and iodide, 350 (1997) 295

# Naphthalene dialdehyde

A fluorescence flow injection method for the quantitation of cyanide: its application to the quantitation of bound cyanide in cassava using an immobilized linamarase bioreactor, 354 (1997) 189

## Naphthalenesulfonates

Tracing polar benzene- and naphthalenesulfonates in untreated industrial effluents and water treatment works by ion-pair chromatography-fluorescence and electrospray-mass spectrometry, 400 (1999) 211

## Naphthalenesulfonylamino acids

Chiral separation of several naphthalenesulfonylamino acids by capillary zone electrophoresis with selectively methylated cyclodextrin derivatives, 357 (1997) 177

Chiral separation of several amino acid derivatives by capillary zone electrophoresis with selectively acetylated β-cyclodextrin derivatives, 373 (1998) 47

## 1-Naphthol

Validation of two immunoassay methods for environmental monitoring of carbaryl and 1-naphthol in ground water samples, 311 (1995) 310

Solid phase preconcentration-Fourier transform infrared spectrometric determination of carbaryl and 1-naphthol, 314 (1995) 203

## 1,2-Naphthoquinone-4-sulfonate

Continuous flow titration system for the generation of multivariate spectrophotometric data in the study of acid-base equilibria, 312 (1995) 189

# 1,2-naphthoquinone-4-sulfonate

Flow-injection spectrophotometric determination of cyclamate in sweetener products with sodium 1,2-naphthoquinone-4-sulfonate, 381 (1999) 307

## Naphthoylamino acids

Chiral separation of several amino acid derivatives by capillary zone electrophoresis with selectively acetylated  $\beta$ -cyclodextrin derivatives, 373 (1998) 47

## 1-Naphthyldiphenylphosphine

Specific and sensitive determination of lipid hydroperoxides with chemical derivatization into 1-naphthyldiphenylphosphine oxide and high-performance liquid chromatography, 307 (1995) 97

# 1-Naphthyldiphenylphosphine oxide

Specific and sensitive determination of lipid hydroperoxides with chemical derivatization into 1-naphthyldiphenylphosphine oxide and high-performance liquid chromatography, 307 (1995) 97

#### Naproxen

Column liquid chromatography with diode laser-induced fluorescence detection of carboxylic acids after pre-column derivatisation, 315 (1995) 209

First-derivative non-linear variable-angle synchronous fluorescence spectroscopy for the simultaneous determination of salicylamide, salsalate and naproxen in serum and urine, 373 (1998) 119

#### Naptalam

Determination of the pesticide Naptalam, at the ppb level, by FIA with fluorimetric detection and on-line preconcentration by solid-phase extraction on C<sub>18</sub> modified silica, 384 (1999) 185

#### Nardilysin

Peptides as tools for studying propeptide and proprotein processing, 352 (1997) 155

## Naringin

Determination of naringin in grapefruit juice by cathodic stripping differential pulse voltammetry at the hanging mercury drop electrode, 360 (1998) 179

## Narrow-bore liquid chromatography

Chemiluminescence-based liquid chromatographic determination of hydrochlorothiazide and captopril, 386 (1999) 257

# NASICON

Conductive epoxy-graphite composite as a solid internal reference in a NASICON-based sodium ion-selective electrode for flowinjection analysis, 308 (1995) 102

# NASICON structure

Detection and selectivity properties of Li\*-ion-selective electrodes based on NASICON-type ceramics, 354 (1997) 291

# **National Food Administration**

Analysis of pyraclofos in crops by the Swedish National Food Administration gas chromatographic multiresidue methodology, 338 (1997) 63

# Natural resins

Ancient resinous substances characterisation, an approach by principal component analysis, 317 (1995) 65

## Natural source

Potentiometric biosensor for L-ascorbic acid based on ascorbate oxidase of natural source immobilized on ethylene-vinylacetate membrane, 385 (1999) 3

# Natural water sample

Selective solid phase extraction of mercury(II) by silica gel-immobilized-dithiocarbamate derivatives, 398 (1999) 297

#### Natural waters

A simple model for predicting the pH values of acidic natural waters, 314 (1995) 111

Analysis of ammonia and methylamines in natural waters by flow injection gas diffusion coupled to ion chromatography, 316 (1995) 291

Determination of copper in natural waters by batch and oscillating flow injection stripping potentiometry, 330 (1996) 79

Determination of sulphate in natural waters and industrial effluents by sequential injection analysis, 331 (1996) 271

Column solid-phase extraction of heavy metal ions on a high surface area CeO<sub>2</sub> as a preconcentration method for trace determination, 336 (1996) 141

Determination of ammonia in water and industrial effluent streams with the indophenol blue method using sequential injection analysis, 344 (1997) 281

Determination of the mercury complexation capacity of natural waters by anodic stripping voltammetry, 350 (1997) 129

Hollow fiber based supported liquid membrane: a novel analytical system for trace metal analysis, 350 (1997) 183

Optimisation of on-channel preconcentration in flow field-flow fractionation for the determination of size distributions of low molecular weight colloidal material in natural waters, 357 (1997) 187

Sequential injection sandwich technique for the simultaneous determination of nitrate and nitrite, 371 (1998) 63

Procedures for the storage and digestion of natural waters for the determination of filterable reactive phosphorus, total filterable phosphorus and total phosphorus, 375 (1998) 5

Simultaneous determination of common mono- and divalent cations in natural water samples by conductimetric detection ion chromatography with an unmodified silica gel column and oxalic acid/18-crown-6 as eluent, 381 (1999) 265

The effects of surfactants on the analysis of organic pollutants in natural waters, 392 (1999) 39

# N-Benzoyl-N-phenylhydroxylamine

Determination of molybdenum in various materials by normal-phase liquid chromatography using N-benzoyl-N-phenylhydroxylamine, 309 (1995) 157

Silica chemically modified with N-benzoyl-N-phenylhydroxylamine in chemisorption of hydrogen and metal ions, 379 (1999) 11

## N-benzoylthiourea derivatives

Solvent extraction of copper(II) from chloride media using N-(thiocarbamoyl)benzamidine and N-benzoylthiourea derivatives, 382 (1999) 205

## Nb-Ge superconducting film

Copper(II) ion-sensitive electrode using chemical vapor deposited Nb-Ge superconducting films, 382 (1999) 151

## N-bromosuccinimide (NBS)

Chemiluminescence arising from the oxidation of bilirubin in aqueous media, 333 (1996) 267

Flow injection chemiluminescence determination of pyrogallol, 368 (1998) 113

## n-Butylamine

Thickness-shear-mode acoustic-wave sensor based on n-butylamine plasma-deposition film for detection of carboxylic acid vapours, 384 (1999) 37

# N-chloro-3-azabicyclo[3.3.0]octane hypochlorite

A derivatization method for the determination of amines in alkaline medium, 395 (1999) 351

#### Near - IR

Estimation of effective sample size when analysing powders with diffuse reflectance near-infrared spectrometry, 364 (1998) 243

## Near field thermal lens detector

Near field thermal lens detector for gradient elution liquid chromatography, 353 (1997) 207

## Near infrared

Optical tomographic reconstruction from diffuse remittance in scattering media using partial least squares estimation, 348 (1997) 553

Evaluation of nonlinear model building strategies for the determination of glucose in biological matrices by near-infrared spectroscopy, 384 (1999) 333

## Near infrared spectrometry

Detection of inhomogeneities in sets of NIR spectra, 330 (1996) 1 Modelling near infrared instrument differences by chemometric methods: testing for near infrared forage analysis, 355 (1997) 181

# Near infrared spectroscopy

Comparison of regularized discriminant analysis, linear discriminant analysis and quadratic discriminant analysis, applied to NIR data, 329 (1996) 257

Quantitation of the active compound and major excipients in a pharmaceutical formulation by near infrared diffuse reflectance spectroscopy with fibre optical probe, 333 (1996) 147

Regularised nearest neighbour classification method for pattern recognition of near infrared spectra, 349 (1997) 253

Measurement of glucose and other analytes in undiluted human serum with near-infrared transmission spectroscopy, 371 (1998) 255

Detection of nonlinearity in multivariate calibration, 376 (1998) 153 Fundamental baseline variations in aqueous near-infrared analysis, 394 (1999) 135

# Near infrared transmittance spectroscopy

Determination of paracetamol in intact tablets by use of near infrared transmittance spectroscopy, 383 (1999) 283

## Near-infrared standards

Intercomparison of industrial near-infrared diffuse reflectance measurements, 380 (1999) 401

## Near-IR electrochemiluminescence

Near-infrared electrogenerated chemiluminescence of ytterbium(III) chelates in aqueous electrolytes, 395 (1999) 205

## Near-IR spectroscopy

Calibration transfer from a scanning near-IR spectrophotometer to a FT-near-IR spectrophotometer, 349 (1997) 263

## Near-ultraviolet

A simple, highly stable scintillator light source for ultraviolet absorption-based sensors, 367 (1998) 153

## Negative chemical ionization

Determination of bromate at parts-per-trillion levels by gas chromatography-mass spectrometry with negative chemical ionization, 377 (1998) 53

## Negative thermal ionisation

Measuring SI-traceable nitrate concentrations in water by a primary method of measurement, isotope dilution mass spectrometry, 346 (1997) 3

## Neocuproine

Adsorptive determination of copper(II) in solution as an ion-pair of bisneocuproinecopper(I) and dodecylsulfate ions on an electrode-separated piezoelectric quartz crystal, 374 (1998) 291

## Neodymium

Simultaneous determination of neodymium and samarium in silicate rocks and minerals by isotope dilution inductively coupled plasma mass spectrometry: Results on twenty geochemical reference samples, 351 (1997) 325

Accurate determination of <sup>87</sup>Rb/<sup>86</sup>Sr and <sup>147</sup>Sm/<sup>144</sup>Nd ratios by inductively-coupled-plasma mass spectrometry in isotope geoscience: an alternative to isotope dilution analysis, 358 (1998) 227

## Neomycin

Individual and joint stopped flow kinetic spectrofluorimetric determination of neomycin and tyrothricin, 303 (1995) 31

Use of a stopped-flow/T-format spectrofluorimeter for simultaneous kinetic analyses, 310 (1995) 453

# Neon plasma

Detection of fluorine emission lines from Grimm-type glow-discharge plasmas - use of neon as the plasma gas, 324 (1996) 147

#### Neon-argon plasma

Selection of self-absorption free analytical lines of aluminum in glow discharge optical emission spectrometry, 343 (1997) 267

# Neostigmine

Flow injection determination of neostigmine and galanthamine by immobilised acetylcholinesterase inhibition, 372 (1998) 379

# Nephelometry

A liquid drop: A windowless optical cell and a reactor without walls for flow injection analysis, 326 (1996) 13

## Nephrolithiasis

High resolution two-dimensional electrophoresis of human urinary proteins, 372 (1998) 147

#### Neptunium

Study of neptunium measurement by alpha liquid scintillation with rejection of  $\beta$ - $\gamma$  emitters, 398 (1999) 205

#### Nernst equation

Models for mediated reactions at film modified electrodes: controlled electrode potential, 307 (1995) 227

## Nernstian concentration dependence

Semiconductor sensors for the detection of fluorocarbons, fluorine and hydrogen fluoride, 393 (1999) 49

## Nested design

Comparison of alternative measurement methods, 391 (1999) 203

## Net analyte signal

Matrix effect modelling in multivariate determination of priority pollutant chlorophenols in urine samples, 381 (1999) 93

#### Neu5Ac

Determination of free N-acetyl neuraminic acid by ultrafiltration and liquid chromatography in the serum of normal and cancer patients, 306 (1995) 65

## Neural networks

Simple encoding of infrared spectra for pattern recognition Part 2. Neural network approach using back-propagation and associative Hopfield memory, 316 (1995) 145

Comparison of an adaptive resonance theory based neural network (ART-2a) against other classifiers for rapid sorting of post consumer plastics by remote near-infrared spectroscopic sensing using an InGaAs diode array, 317 (1995) 1

Quantitative structure-property relationships for colour reagents and their colour reactions with ytterbium using regression analysis and computational neural networks, 321 (1996) 97

The simulation of <sup>13</sup>C nuclear magnetic resonance spectra of dibenzofurans using multiple linear regression analysis and neural networks, 321 (1996) 127

Neural networks with robust backpropagation learning algorithm, 322 (1996) 21

Extending the response range of an optical fibre pH sensor using an artificial neural network, 330 (1996) 31

Kohonen neural network as a pattern recognition method based on the weight interpretation, 334 (1996) 57

Calibration of an array of voltammetric microelectrodes, 334 (1996)

Quantitative determination of polymer and mineral content in paper coatings by infrared spectroscopy. Improvements by non-linear treatments, 335 (1996) 79

Simultaneous flow injection analysis of cadmium and lead with differential pulse voltammetric detection, 340 (1997) 149

Computational neural networks for the evaluation of biosensor FIA measurements, 348 (1997) 135

Evaluation of natural computation techniques in the modelling and optimization of a sequential injection flow system for colorimetric iron(III) determination, 348 (1997) 143

Advantages of a hierarchical system of neural-networks for the interpretation of infrared spectra in structure determination, 348 (1997) 255

Diffuse reflectance absorbance spectroscopy taking in chemometrics (DRASTIC). A hyperspectral FT-IR-based approach to rapid screening for metabolite overproduction, 348 (1997) 273

Linear data projection using a feedforward neural network, 348 (1997) 495

Resolution of highly overlapping differential pulse anodic stripping voltammetric signals using multicomponent analysis and neural networks, 350 (1997) 163 Enhanced selectivity of MOSFET gas sensors by systematical analysis of transient parameters, 353 (1997) 291

Neural networks as a tool for modelling the retention behaviour of dihydropyridines in micellar liquid chromatography, 353 (1997) 367

The optimal brain surgeon for pruning neural network architecture applied to multivariate calibration, 375 (1998) 187

A common framework for the unification of neural, chemometric and statistical modeling methods, 384 (1999) 227

The neural network MolNet prediction of alkane enthalpies, 384 (1999) 271

The development of a quantitative structure property relationship (QSPR) for the prediction of dielectric constants using neural networks, 384 (1999) 285

Evaluation of nonlinear model building strategies for the determination of glucose in biological matrices by near-infrared spectroscopy, 384 (1999) 333

Radial basis functions applied to the classification of UV-visible spectra, 388 (1999) 273

## Neuroactivity

Sensing neuroactive agents in Hawaiian plants, 337 (1997) 297

## Neurogenic inflammation

Determination of in situ tissue neuropeptides by capillary immunoelectrophoresis, 372 (1998) 209

#### Neurons

Micromachined biosensor terminals for the study of growing neurons, 385 (1999) 73

# Neuropeptides

Determination of in situ tissue neuropeptides by capillary immunoelectrophoresis, 372 (1998) 209

## Neurophysin

Peptides as tools for studying propeptide and proprotein processing, 352 (1997) 155

#### Neurotransmitters

Enzyme modified amperometric sensors for choline and acetylcholine with tetrathiafulvalene tetracyanoquinodimethane as the electron-transfer mediator, 341 (1997) 43

Application of crown ethers as modifiers for the separation of amines by capillary electrophoresis, 360 (1998) 69

Determination of monoamine transmitters and their metabolites by capillary electrophoresis with electrochemical detection, 382 (1999) 33

## **Neutral carriers**

Tris(2-ethylhexyl) phosphate and tricresyl phosphate as new neutral carriers for organic ammonium ion-selective membrane electrodes, 354 (1997) 301

Optical sensors for sodium, potassium and ammonium ions based on lipophilic fluorescein anionic dye and neutral carriers, 357 (1997) 85

pH polymeric membrane microelectrodes based on neutral carriers and their application in aquatic environments, 395 (1999) 285 Influence of nonionic surfactants on the optical response of cation selective membrane films, 397 (1999) 287

## Neutral ionophores

Flow injection potentiometry by poly(vinyl chloride)-membrane electrodes with substituted azacrown ionophores for the determination of lead(II) and mercury(II) ions, 372 (1998) 387

Influence of lipophilic anionic compounds on the selectivity of ionselective electrodes based on podands with phosphoryl complexing groups, 385 (1999) 125

## Neutral red

Molecular spectroscopic study of DNA binding with neutral red and application to assay of nucleic acids, 396 (1999) 75

#### **Neutralization reaction**

Determination of inorganic anions in water samples by ionexchange chromatography with chemiluminescence detection based on the neutralization reaction of nitric acid and potassium hydroxide, 331 (1996) 239

# Neutron activation analysis

A chelating resin containing 4-(2-thiazolylazo)resorcinol as the functional group. Chromatographic application to the preconcentration and separation of some trace metal ions including uranium, 351 (1997) 57

Simultaneous determination of arsenic(III,V), selenium(IV,VI), and antimony(III,V) in natural water by coprecipitation and neutron activation analysis, 395 (1999) 293

#### **Neutron** irradiation

Separation of radiolabelled arsenic compounds produced by neutron irradiation of organoarsenic compounds, 380 (1999) 63

## New user's interface

Advanced application of rule nets to the automation of chemical analysis systems, 354 (1997) 249

## Newborns

Assessment of the content of selected trace elements in serum of term and pre-term newborns by inductively coupled plasma mass spectrometry, 342 (1997) 75

## Newton-Raphson method

An equilibrium simulator for multiphase equilibria based on the extent of reaction and Newton-Raphson method with globally convergent strategy (SEQEx2), 334 (1996) 271

## N-hydroxysuccinimidyl-α-(9-acridine)-acetate

Liquid chromatographic determination of amino acids and peptides by pre-column fluorescence derivatization with N-hydroxysuccinimidyl-α-(9-acridine)-acetate, 367 (1998) 69

## Ni electrode

Sensitized luminescence induced by nickel electrocatalysis to detect aliphatic hydroxy compounds, 362 (1998) 141

#### Ni(egta)

Polynuclear complexes of the edta analogues, 394 (1999) 345

#### Ni(nota)

Polynuclear complexes of the edta analogues, 394 (1999) 345

## Ni2+-selective electrodes

Porphyrins as carrier in PVC based membrane potentiometric sensors for nickel(II), 355 (1997) 33

#### Nicarbazin

4.4'-Dinitrocarbanilide – hapten development utilizing molecular models, 376 (1998) 139

#### Nickel

Determination of chromium and nickel in human blood by means of inductively coupled plasma mass spectrometry, 306 (1995) 35

Determination of Cu(II) and Ni(II) as chelates with butyl xanthate by liquid chromatography with electrochemical and spectrophotometric detection, 311 (1995) 225

Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for nickel, cobalt and manganese determination by atomic absorption spectrometry, 317 (1995) 215

Study of the catalytic polarographic reduction of Ni(II) in the presence of albumin, immunoglobulins and serum proteins Determination of total proteins in serum, 317 (1995) 319

Stripping voltammetry at preplated mercury coated microelectrodes in flowing solutions, 325 (1996) 11

Pretreatment by yeast for determination of nickel and vanadium in bitumen-in-water emulsion by inductively coupled plasma atomic emission spectrometry, 327 (1996) 61

Simultaneous cathodic stripping voltammetric determination of mercury, cobalt, nickel and palladium by mixed binder carbon paste electrode containing dimethylglyoxime, 333 (1996) 119

Pyrocatechol Violet immobilized Amberlite XAD-2: synthesis and metal-ion uptake properties suitable for analytical applications, 340 (1997) 285

Nickel speciation of fly ash by phase extraction, 349 (1997) 121

Determination of nickel in human scalp hair by slurry sampling electrothermal atomic absorption spectrometry, 349 (1997) 319

Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165

Adsorbed resin phase spectrophotometric determination of nickel, 363 (1998) 295

On-line separation and preconcentration of cadmium, lead and nickel in a fullerene (C<sub>60</sub>) minicolumn coupled to flow injection tungsten coil atomic absorption spectrometry, 368 (1998) 255

Simultaneous determination of trace amounts of nickel, copper and mercury by liquid chromatography coupled with flow-injection on-line derivatization and preconcentration, 369 (1998) 215

Complex formation of the new reagent 5-(6-methoxy-2-benzothia-zoleazo)-8-aminoquinoline with cobalt and nickel for their sensitive spectrophotometric detection, 391 (1999) 365

Estimation of uncertainties in ICP-MS analysis: a practical methodology, 394 (1999) 281

Effect of the competition of copper and cobalt on the lability of Ni(II)-organic ligand complexes. Part I. In model solutions containing Ni(II) and a well-characterized fulvic acid, 395 (1999) 309

Specific separation of nickel ion with bathophenanthroline disulfonic acid by capillary zone electrophoresis, 396 (1999) 117

## Nickel complex

Electrocatalysis of the oxidation of alcohol and phenol derivative pollutants at vitreous carbon electrode coated by nickel macrocyclic complex-based films, 378 (1999) 159

# Nickel determination

Derivative UV-visible spectrophotometric determination of nickel in alloys and biological samples after preconcentration with the ion pair of 2-nitroso-1-naphthol-4-sulfonic acid and tetradecyldimethylbenzylammonium chloride onto microcrystalline naphthalene or by a column method, 367 (1998) 55

An on-line solid phase extraction system using polyurethane foam for the spectrophotometric determination of nickel in silicates and alloys, 378 (1999) 287

## Nickel electrode

Determination of polyhydroxy antibiotics by capillary zone electrophoresis with amperometric detection at a nickel electrode, 329 (1996) 49

## Nickel hexacyanoferrate

Catalytic oxidation of reduced nicotinamide adenine dinucleotide at a microband gold electrode modified with nickel hexacyanoferrate, 310 (1995) 145

#### Nickel metal

Determination of arsenic, antimony, selenium, tellurium and bismuth in nickel metal by hydride generation atomic fluorescence spectrometry, 371 (1998) 109

## Nickel microelectrode

Application of a nickel-microelectrode-incorporated end-column detector for capillary electrophoretic determination of alditols and alcohols, 341 (1997) 83

# Nickel phthalocyanine

Electrocatalytic and flow-injection determination of the antioxidant tert.-butylhydroxyanisole at a nickel phthalocyanine polymer modified electrode, 305 (1995) 49

Voltammetric behaviour of dopamine at nickel phthalocyanine polymer modified electrodes and analytical applications, 354 (1997) 343

Voltammetric behaviour of dopamine at nickel phthalocyanine polymer modified electrodes and analytical applications, 356 (1997) 245

# Nickel sulphide fire assay

Chemical speciation study of platinum group elements in geological samples by stepwise dissolution and inductively coupled plasma mass spectrometry, 374 (1998) 93

## Nickel(II)

Simultaneous determination of cobalt(II) and Ni(II) in water and soil samples with sequential injection analysis, 366 (1998) 177

## Nickel(II)-5-Br-PADAP complex

Electrospray ionization mass spectrometry of metal complexes. Gas phase formation of a binuclear copper(II)-5-Br-PADAP complex, 390 (1999) 193

## Nickel-based chemical modifiers

Determination of bismuth, indium and lead in geological and seawater samples by electrothermal atomic absorption spectrometry with nickel-containing chemical modifiers, 382 (1999) 329

## Nickel-based heat-resisting superalloy

Determination of trace amounts of selenium and tellurium in nickelbased heat-resisting superalloys, steels and several metals by electrothermal atomic absorption spectrometry after reductive coprecipitation with palladium using ascorbic acid, 312 (1995) 157

## Nickel-palladium

Determination of selenium and tellurium in nickel and nickel/ironbased alloys by graphite furnace atomic absorption spectrometry with a nickel/palladium matrix modifier, 304 (1995) 115

## Nickel-vanadium chemical modifier

Comparison of chemical modifiers used for the determination of gold in ores by electrothermal atomic absorption spectrometry, 362 (1998) 247

#### Nicotinamide

Surface-enhanced Raman detection of nicotinamide in vitamin tablets, 368 (1998) 21

# Nicotinamide adenine dinucleotide

A reagentless, disposable biosensor for lactic acid based on a screenprinted carbon electrode containing Meldola's Blue and coated with lactate dehydrogenase, NAD\* and cellulose acetate, 304 (1995) 17

#### Nicotine

2-(Trifluoromethyl)acrylic acid: a novel functional monomer in non-covalent molecular imprinting, 343 (1997) 1

Spectrophotometric determination of nicotine, 379 (1999) 75

On-line coupling of in vivo microdialysis with capillary electrophoresis/electrochemistry, 379 (1999) 307

Analysis of solid samples using supported liquid membranes: a method for the evaluation of the release of nicotine from Swedish snuff, 387 (1999) 155

## Nicotine determination

Fourier-transform infrared determination of nicotine in tobacco samples by transmittance measurements after leaching with CHCl<sub>3</sub>, 373 (1998) 63

#### **NIES Chlorella**

Determination of phosphorus in turbid waters using alkaline potassium peroxodisulphate digestion, 315 (1995) 123

## **NIES Pond Sediment**

Determination of phosphorus in turbid waters using alkaline potassium peroxodisulphate digestion, 315 (1995) 123

#### Nile blue

Amperometric glyceride biosensor, 330 (1996) 159

#### Nile blue A

Electrocatalysis of NADH oxidation with electropolymerized films of nile blue A, 343 (1997) 69

#### Nile blue sulfate (NBS)

Three-dimensional spectra of the long-range assembly of Nile Blue sulfate on the molecular surface of DNA and determination of DNA by light-scattering, 395 (1999) 187

## Nile red

A sensitive fluorescence probe for DDT-type pesticides, 368 (1998)

#### Ninhydrin

A comparison of various calibration techniques applied to the ninhydrin-cefoxitin determination, 334 (1996) 199

#### Niobate-Tantalates

Determination of scandium in geological materials, rare earth minerals and niobate/tantalate-type of samples by inductively coupled plasma atomic emission spectrometry after solvent extraction/acid hydrolysis separation, 376 (1998) 273

#### Niobium

Behaviour of Zr, Hf, Nb, Ta and Pa on macroporous anion exchanger in chloride–fluoride media, 374 (1998) 149

#### Nioxime

Photometric determination of boron in potassium dihydrogenphosphate by the reaction of boron-containing macrobicyclic iron(II) nioximate formation, 395 (1999) 213

#### NIR

Feature reduction by Fourier transform in pattern recognition of NIR data, 331 (1996) 75

Investigation of sources of variance which contribute to NIR-spectroscopic measurement of pharmaceutical formulations, 345 (1997) 185

Determination of acid value, hydroxyl value and water content in reactions between dicarboxylic acids and diols using near-infrared spectroscopy and non-linear partial least squares regression,

Measurement of glucose and other analytes in undiluted human serum with near-infrared transmission spectroscopy, 371 (1998) 255

The robust normal variate transform for pattern recognition with near-infrared data, 382 (1999) 87

Application of IR spectroscopy and multivariate calibration to monitor the fusion synthesis of Ca- and Ca/Mg-resinates, 391 (1999) 269

Real time quantitation of a chemical reaction by fiber optic nearinfrared spectroscopy, 395 (1999) 335

Chemometrics: the issues of measurement and modelling, 400 (1999) 399

## NIR analysis

PLS-NIR determination of total sugar, glucose, fructose and sucrose in aqueous solutions of fruit juices, 344 (1997) 41

# NIR sensor

Optical sensing of pH using thin films of substituted polyanilines, 357 (1997) 247

## NIR spectroscopy

Effective mass sampled by NIR fiber-optic reflectance probes in blending processes, 348 (1997) 303

Use of near-infrared spectrometry in control analyses of acrylic fibre manufacturing processes, 383 (1999) 291

Calibration in non-linear near infrared reflectance spectroscopy: a comparison of several methods, 384 (1999) 207

Analytical control of pharmaceutical production steps by near infrared reflectance spectroscopy, 392 (1999) 237

#### Nitrate

Simultaneous spectrophotometric determination of nitrite and nitrate in a flow-injection system, 302 (1995) 283

Spectrophotometric determination of nitrite with 4-iodo-N,N-dimethylaniline, 306 (1995) 357

Simultaneous flow injection determination of nitrate and nitrite in water by gas-phase chemiluminescence, 308 (1995) 308

Photo-induced reduction of nitrate to nitrite and its application to the sensitive determination of nitrate in natural waters, 308 (1995)

Characterization and reduction of interferences in flow-injection analysis for the in situ determination of nitrate and nitrite in sea water, 308 (1995) 413

Determination of nitrate in municipal waste water by UV spectroscopy, 312 (1995) 107

Differential flow-injection potentiometry with double sensitivity using one ion-selective membrane, 313 (1995) 83

Sequential injection analysis of nitrites and nitrates, 315 (1995) 321

Optical sensing of anions via polarity-sensitive dyes: a bulk sensor membrane for nitrate, 316 (1995) 239

Amperometric method for the determination of nitrate in water, 317 (1995) 287

Oxidative detection of nitrite at an electrocatalytic [Ru(bipy)<sub>2</sub>poly-(4-vinylpyridine)<sub>10</sub>Cl]Cl electrochemical sensor applied for the flow injection determination of nitrate using a Cu/Cd reductor column, 319 (1996) 111

Measuring SI-traceable nitrate concentrations in water by a primary method of measurement, isotope dilution mass spectrometry, 346 (1997) 3

A submersible flow injection-based sensor for the determination of total oxidised nitrogen in coastal waters, 361 (1998) 63

Flow-injection biamperometric determination of nitrate (by photoreduction) and nitrite with the NO<sub>2</sub> /I<sup>-</sup> reaction, 366 (1998) 241

Catalytic simultaneous spectrophotometric determination of nitrite and nitrate with a flow injection system, 370 (1998) 59

Sequential injection sandwich technique for the simultaneous determination of nitrate and nitrite, 371 (1998) 63

A low power ultra violet spectrophotometer for measurement of nitrate in seawater: introduction, calibration and initial sea trials, 377 (1998) 167

Simultaneous determination of nitrite and nitrate in various samples using flow injection with spectrophotometric detection, 382 (1999) 15

Measurement of dissolved total nitrogen in wastewater by UV photooxidation with peroxodisulphate, 389 (1999) 267

Sensitivity control of ion-selective biosensors by electrophoretically mediated analyte transport, 391 (1999) 57

#### Nitrate biosensor

Sensitivity control of ion-selective biosensors by electrophoretically mediated analyte transport, 391 (1999) 57

## Nitrate ion-selective electrode

Continuous-flow determination system based on null-point potentiometry using a nitrate ion-selective membrane, 355 (1997) 211

## Nitrate/phosphate

The determination of cadmium and six other heavy metals in nitrate/ phosphate fertilizer solution by ion chromatography, 391 (1999) 35

## Nitrated polycyclic aromatic hydrocarbons

Polarographic and voltammetric determination of selected nitrated polycyclic aromatic hydrocarbons, 393 (1999) 141

#### Nitrated polystyrene coating

Piezoelectric quartz crystal humidity sensor using chemically modified nitrated polystyrene as water sorbing coating, 332 (1996) 93

#### Nitrate-selective CHEMFETS

Durable nitrate-selective chemically modified field effect transistors based on new polysiloxane membranes, 332 (1996) 123

#### Nitric oxide

Determination of nitric oxide saturated (stock) solution by chronoamperometry on a porphyrine microelectrode, 339 (1997) 265

Design and characterization of chemically modified electrodes with iron(III) porphyrinic-based polymers: Study of their reactivity toward nitrites and nitric oxide in aqueous solution, 341 (1997) 177

Design, synthesis and characterization of a novel fluorescent probe for nitric oxide (nitrogen monoxide), 365 (1998) 159

Iridium oxide and palladium modified nitric oxide microsensor, 381 (1999) 191

# Nitrilotriacetic acid

Multivariate curve resolution analysis of voltammetric data obtained at different time windows: study of the system Cd<sup>2+</sup>-nitrilotriacetic acid, 371 (1998) 23

#### Nitrit

Simultaneous spectrophotometric determination of nitrite and nitrate in a flow-injection system, 302 (1995) 283

Spectrophotometric determination of nitrite with 4-iodo-N,Ndimethylaniline, 306 (1995) 357

Simultaneous flow injection determination of nitrate and nitrite in water by gas-phase chemiluminescence, 308 (1995) 308

Photo-induced reduction of nitrate to nitrite and its application to the sensitive determination of nitrate in natural waters, 308 (1995) 406

Flow-injection chemiluminescence determination of ultra low concentrations of nitrite in water, 316 (1995) 261

Oxidative detection of nitrite at an electrocatalytic [Ru(bipy)<sub>2</sub>poly-(4-vinylpyridine)<sub>10</sub>Cl]Cl electrochemical sensor applied for the flow injection determination of nitrate using a Cu/Cd reductor column, 319 (1996) 111

- Highly sensitive spectrophotometric determination of nitrite ion using 5,10,15,20-tetrakis(4-aminophenyl)porphine for application to natural waters, 333 (1996) 175
- Amperometric determination of nitrite via reaction with iodide using microelectrodes, 337 (1997) 49
- Liquid chromatography-amperometric detection of nitrite using a polypyrrole modified glassy carbon electrode doped with tungstodiphosphate anion, 345 (1997) 147
- Asymmetric porphyrin derivative having one reactive site as a highly sensitive spectrophotometric reagent for nitrite, 354 (1997) 159
- Response function and analytical parameters of nitrite-selective optode membranes in absorbance and fluorescence mode, 355 (1997) 259
- Flow-injection biamperometric determination of nitrate (by photoreduction) and nitrite with the NO<sub>7</sub>/I<sup>-</sup> reaction, 366 (1998) 241
- Catalytic simultaneous spectrophotometric determination of nitrite and nitrate with a flow injection system, 370 (1998) 59
- Sequential injection sandwich technique for the simultaneous determination of nitrate and nitrite, 371 (1998) 63
- Simultaneous determination of nitrite and nitrate in various samples using flow injection with spectrophotometric detection, 382
- Amperometric determination of nitrite based on reaction with 3mercaptopropanoic acid, 382 (1999) 189
- Characterisation of a micro-total analytical system for the determination of nitrite with spectrophotometric detection, 387 (1999) 1

#### Nitrite analysis

An integrated microdistillation flow injection system for nitrite measurement, 395 (1999) 225

# Nitrite and nitrate determination

Spectrophotometric determination of nitrate and nitrite in soil and water samples with a diazotizable aromatic amine and coupling agent using column preconcentration on naphthalene supported with ion-pair of tetradecyldimethylbenzylammonium and iodide, 350 (1997) 295

# Nitrite determination

Reaction rate method for determination of nitrite by applying a stopped-flow technique, 376 (1998) 331

# Nitrite reduction

Electrocatalytic reduction of nitrite at a glassy carbon electrode surface modified with palladium(II)-substituted Keggin type heteropolytungstate, 388 (1999) 103

#### Nitrites

Sequential injection analysis of nitrites and nitrates, 315 (1995) 321

## Nitro and amino compounds

Applicability of low temperature high-resolution fluorescence spectroscopy to the analysis of nitro and amino polycyclic aromatic hydrocarbons, 312 (1995) 165

# Nitro compounds

Voltammetric behaviour of some nitropesticides at the mercury drop electrode, 329 (1996) 73

## Nitroaromatic compounds

Analysis and characterisation of nitroglycerine-based explosives by gas chromatography-mass spectrometry, 307 (1995) 89

Surface morphology and the response of piezoelectric gas sensors, 315 (1995) 83

## Nitroaromatic residues in soils

Broadening the antibody specificity by hapten design for an enzyme-linked immunoassay as an improved screening method for the determination of nitroaromatic residues in soils, 315 (1995) 279

#### **Nitroaromatics**

Investigation into variations in the isomer content within the nitroaromatic component in nitroglycerine-based explosives by gas chromatography with flame ionisation detection, 309 (1995) 189

## Nitrobenzenes

- Determination of nitrobenzenes in river water, sediment and fish samples by gas chromatography-mass spectrometry, 312 (1995)
- A potentiometric study of cationic heteroconjugation equilibria in systems with substituted pyridine N-oxides in nitrobenzene, 336 (1996) 107

## 4-Nitrocatechol

The aluminium(III)-4-nitrocatechol system: potentiometry, voltammetry and application to the determination of reactive Al(III), 345 (1997) 5

## Nitrocellulose membrane

Enzyme immunoassay using peroxidase as a label and a dip-strip test for monitoring residual bacitracin in chicken plasma, 346 (1997) 207

# Nitrochrysene

A sensitive method for the determination of 6-nitrochrysene, 2-nitro-fluoranthene and 1-, 2- and 4-nitropyrenes in airborne particulates using high-performance liquid chromatography with chemiluminescence detection, 343 (1997) 251

## Nitrofluoranthene

A sensitive method for the determination of 6-nitrochrysene, 2nitro-fluoranthene and 1-, 2- and 4-nitropyrenes in airborne particulates using high-performance liquid chromatography with chemiluminescence detection, 343 (1997) 251

## Nitrogen

- Sequential analyte removal in flow analysis: determination of nitrogen, phosphorus and potassium in fertilizers, 317 (1995) 239
- Determination of nitrogen in uranium-plutonium mixed oxide fuel by gas chromatography after fusion in an inert gas atmosphere, 345 (1997) 131
- Turbidimetric flow-injection determination of total nitrogen and potassium in vegetables, 356 (1997) 259

## Nitrogen dioxide

Spectrophotometric flow-through gas sensor for the determination of atmospheric nitrogen dioxide, 308 (1995) 109

Development of a passive sampling technique for the determination of nitrogen dioxide and sulphur dioxide in ambient air, 346 (1997) 127

Bisegmented flow system for determination of low concentrations of gaseous constituents in gaseous samples, 393 (1999) 121

## Nitrogen dioxide gas detection

Development of a monitoring tape for nitrogen dioxide in air, 321 (1996) 41

## Nitrogen protonated heterocyclic bases

Dissociation constants of neutral and charged acids in methyl alcohol. The acid strength resolution, 374 (1998) 309

#### Nitrogen purging

Immobilization of aqueous pyrene by dissolved humic acid, 356 (1997) 295

## Nitroglycerine

Analysis and characterisation of nitroglycerine-based explosives by gas chromatography-mass spectrometry, 307 (1995) 89

Investigation into variations in the isomer content within the nitroaromatic component in nitroglycerine-based explosives by gas chromatography with flame ionisation detection, 309 (1995) 189

#### Nitromethane selective quenching rule

Spectrochemical investigations in molecularly organized solvent media: evaluation of nitromethane as a selective fluorescence quenching agent for alternant PAHs dissolved in micellar solvent media, 324 (1996) 175

#### Nitro-PAHs

Shpol'skii spectroscopy as a tool in environmental analysis for amino- and nitro-substituted polycyclic aromatic hydrocarbons: A critical evaluation, 333 (1996) 193

Effect of parameters on supercritical fluid extraction of nitropolynuclear aromatic hydrocarbons from sand, 349 (1997) 245

## Nitro-PAPS

Flow-injection spectrophotometric determination of trace iron in various salts. Elimination of blank peak effect and use of 2-(5nitro-2-pyridylazo)-5-(N-propyl-N-sulfopropylamino)phenol as chromogenic agent, 308 (1995) 433

Complex formation of 2-(5-nitro-2-pyridylazo)-5-(N-propyl-N-sulfo-propylamino)phenol with lead, cadmium and manganese for their sensitive spectrophotometric detection in flow injection and ion chromatography systems, 345 (1997) 139

## 2-Nitrophenol

Use of a carbon paste modified electrode for the determination of 2nitrophenol in a flow system by differential pulse voltammetry, 344 (1997) 167

## Nitrophenol

Effect of competitor design on immunoassay specificity: Development and evaluation of an enzyme-linked immunosorbent assay for 2,4-dinitrophenol, 387 (1999) 267

## Nitropyrene

A sensitive method for the determination of 6-nitrochrysene, 2nitro-fluoranthene and 1-, 2- and 4-nitropyrenes in airborne particulates using high-performance liquid chromatography with chemiluminescence detection, 343 (1997) 251

#### 2-Nitroso-1-naphthol-4-sulfonic acid

Derivative UV-visible spectrophotometric determination of nickel in alloys and biological samples after preconcentration with the ion pair of 2-nitroso-1-naphthol-4-sulfonic acid and tetradecyldimethylbenzylammonium chloride onto microcrystalline naphthalene or by a column method, 367 (1998) 55

#### Nitroso-R salt

Flame atomic absorption spectrometric determination of cobalt in biological materials using a flow-injection system with on-line preconcentration by ion-pair adsorption, 316 (1995) 329

#### Nitrosoranitidine

Determination of ranitidine in pharmaceutical preparations using manual and flow injection potentiometry and spectrophotometry, 332 (1996) 39

## N-Methoxymethyl-N'-methyl-9,9'-biacridylidene

Chemiluminescence of protected hemiaminal N-methoxymethyl-N'-methyl-9,9'-biacridylidene in homogeneous and micellar media. Prospects for analytical applications, 304 (1995) 91

#### N-methyl phenazine methosulfate

Reagentless amperometric biosensors highly sensitive to hydrogen peroxide, glucose and lactose based on N-methyl phenazine methosulfate incorporated in a Nafion film as an electron transfer mediator between horseradish peroxidase and an electrode, 344 (1997) 187

# N-Methyl-γ-aminobutyrohydroxamate resin

Chelation ion chromatography as a technique for trace elemental analysis in complex matrix samples, 337 (1997) 173

# N-Methylcarbamates

On-line sample handling strategies for the trace-level determination of pesticides and their degradation products in environmental waters, 318 (1995) 1

A monoclonal immunoassay for carbofuran and its application to the analysis of fruit juices, 347 (1997) 103

# N-Methyl-N-9-(methylanthracene)-N'-benzoylthiourea

Fluorometric detection of heavy metals with N-methyl-N-9-(methylanthracene)-N'-benzoylthiourea, 309 (1995) 339

# N1-methylnicotinamide

Fluorometric determination of N<sup>1</sup>-methylnicotinamide in human urine and serum by liquid chromatography postcolumn photoirradiation with a mobile phase containing 18-crown-6, 363 (1998) 133

## 2-(N-morpholino)ethanesulfonic acid

Evaluation of n-substituted aminosulfonic acid pH buffers with a morpholinic ring for cadmium and lead speciation studies by electroanalytical techniques, 394 (1999) 325

## 3-(N-morpholino)-2-hydroxypropanesulfonic acid

Evaluation of *n*-substituted aminosulfonic acid pH buffers with a morpholinic ring for cadmium and lead speciation studies by electroanalytical techniques, 394 (1999) 325

## 3-(N-morpholino)propanesulfonic acid

Evaluation of n-substituted aminosulfonic acid pH buffers with a morpholinic ring for cadmium and lead speciation studies by electroanalytical techniques, 394 (1999) 325

#### NMR

Formation of a copper-butyl ethoxycarbonyl thiourea complex, 346 (1997) 237

Factor analysis of simulated time domain NMR data for semicrystalline polymers, 356 (1997) 27

NMR analysis of multiple samples using parallel coils: improved performance using reference deconvolution and multidimensional methods, 400 (1999) 297

#### NMR spectrometry

Determination of alkylated polystyrene pour point depressant by preparative gel permeation chromatography, infrared spectrometry and nuclear magnetic resonance spectrometry, 373 (1998) 73

## NMR spectroscopy

Qualitative and quantitative determination of oxygenates in gasolines using <sup>1</sup>H nuclear magnetic resonance spectroscopy, 391 (1999) 277

## N-nitrosomorpholine

Determination of N-nitrosomorpholine using square wave voltammetry, 356 (1997) 239

#### N-Nitrosopiperidine

Determination of N-nitrosopiperidine in beers by liquid chromatography with reductive amperometric detection at a hanging mercury drop electrode, 305 (1995) 310

## Noble metal ions

Synthesis and efficiency of a spherical macroporous epoxy-imidazole complexing resin for preconcentrating trace noble metal ions, 354 (1997) 143

#### Noble metals

Determination of noble metals in sulphide inclusions from diamonds using inductively coupled plasma-mass spectrometry, 333 (1996) 41

Determination of physiological noble metals in human urine using liquid-liquid extraction and Zeeman electrothermal atomic absorption spectrometry, 340 (1997) 277

## Noble metals analysis

Rapid simultaneous determination of ruthenium and osmium in aqueous solutions of their tetroxides by second-order derivative spectrophotometry, 349 (1997) 53

#### n-Octane

Multicomponent gas analysis of a mixture of chloroform, octane and toluene using a piezoelectric quartz crystal sensor array, 393 (1999) 67

#### Noise

The application of the wavelet power spectrum to detect and estimate 1/f noise in the presence of analytical signals, 388 (1999) 303

## Noise reduction

Step by step filter - an approach for noise reduction in the derivative UV-visible spectra, 324 (1996) 77

# Noise suppression

Fourth derivative spectroscopy - a critical view, 349 (1997) 295

#### Nomenclatur

Nomenclature in evaluation of analytical methods including detection and quantification capabilities, 391 (1995) 105

## Nonactin ammonium electrodes

Study of the temperature behaviour of all-solid-state nonactin ammonium electrodes with PVC membrane applied to graphite-epoxy supports of varied composition, 355 (1997) 241

#### Nonactin electrode

Determination of ammonia in wastewaters containing high concentrations of surfactants by flow injection potentiometry with online sample clean-up, 367 (1998) 193

## Nonaqueous media

Microwave-assisted saponification of animal greases for cholesterol determination, 371 (1998) 297

# Non-aqueous solvents

Studies on correlations of acid-base properties of substituted pyridine N-oxides in solutions. Part 2: Correlations of the pK<sub>a</sub> values in non-aqueous media, 329 (1996) 267

Studies on correlations of acid-base properties of substituted pyridine N-oxides in solutions. Correlations of cationic homoconjugation constants and pK<sub>a</sub> values in non-aqueous media, 334 (1996) 155

A study of cationic heteroconjugation equilibria of substituted pyridine N-oxides in acetonitrile, 338 (1997) 261

# Non-aqueous titrimetry

Automated flow injection spectrophotometric non-aqueous titrimetric determination of the free fatty acid content of olive oil, 351 (1997) 291

## Non-calibration method

IR quantitative analysis of organic mixtures without any calibration, 353 (1997) 105

# Non-competitive immunoenzymometric assay

The development of a non-competitive immunoenzymometric assay of cocaine, 358 (1998) 5

#### Non-destructive method

Direct stripping voltammetric method for the determination of small concentrations of one component in binary alloys, 327 (1996) 107

# Non-destructive sampling

Pentachlorophenol detection at the source of emission . Sampling equipment and immunochemical analysis, 359 (1998) 321

# Non-dispersive infrared analysis

A new automated underway system for making high precision pCO<sub>2</sub> measurements onboard research ships, 377 (1998) 185

#### Nonelectroactive cations

Determination of nonelectroactive cations by capillary electrophoresis with amperometric detection at a graphite electrode modified with a thin film of mixed-valent ruthenium-iron cyanide, 391 (1999) 29

## Non-ideal detector response

Parallel Kalman filters for peak purity analysis: extensions to nonideal detector response, 307 (1995) 459

#### Non-invasive sampling

Novel instrumentation for determination of ethanol concentrations in human perspiration by gas chromatography and a good interrelationship between ethanol concentrations in sweat and blood, 365 (1998) 259

## Non-ionic detergent (Nonidet P-40)

Isoelectric focusing of biotinidase and lipoamidase with the addition of non-ionic detergent, 372 (1998) 281

#### Nonionic surfactant micelle

Room temperature phosphorescence of palladium(II)-coproporphyrin III complex in a precipitated nonionic surfactant micelle phase: determination of traces of palladium(II), 320 (1996)

## Nonionic surfactant Triton X-100

An anthracene-substituted benzoylthiourea for the selective determination of Hg(II) in micellar media, 388 (1999) 19

## Non-ionic surfactants

Application of an indirect tensammetric method for the determination of non-ionic surfactants in surface water, 305 (1995) 256

Studies of preservation of water samples for the determination of non-ionic surfactants, 311 (1995) 31

Determination of non-ionic surfactants adsorbed on particles of surface water by an indirect tensammetric method combined with the BiAS separation scheme, 331 (1996) 131

Potentiometric response of magnesium-selective membrane electrode in the presence of nonionic surfactants, 382 (1999) 265

Influence of nonionic surfactants on the optical response of cation selective membrane films, 397 (1999) 287

#### Non-isolated counter electrodes

New developments in coulometric titrations. Non-isolated counter electrodes, 359 (1998) 115

## Non-isothermal kinetics

Analysis of non-isothermal kinetic measurements, 337 (1997) 73Confidence intervals for the activation energy estimated by few experiments, 355 (1997) 175

# Non-labile complexes

A differential pulse polarographic study of bismuth<sup>III</sup> complexes with macrocyclic ligands 1,4,7,10-tetraazacyclododecane and 1,4,7,10-tetrakis (2-hydroxypropyl)-1,4,7,10-tetraazacyclododecane. An out-of-cell determination of stability constants of polarographically active and inactive bismuth complexes at fixed ligand to metal ratio and various pH values, 372 (1998) 323

## Nonlinear

Gas sensing based on the dynamic nonlinear responses of a semiconductor gas sensor: dependence on the range and frequency of a cyclic temperature change, 361 (1998) 93

# Nonlinear calibration

Uniform design applied to nonlinear multivariate calibration by ANN, 370 (1998) 65

#### Non-linear effects

Analysis of some non-linear effects in quantitative electron paramagnetic resonance spectrometry. Non-linear effects due to the use of cavities with TE<sub>102</sub> and TM<sub>110</sub> modes, 353 (1997) 99

## Nonlinear fluorescence system

Multivariate nonlinear modelling of fluorescence data by neural network with hidden node pruning algorithm, 344 (1997) 29

Uniform design applied to nonlinear multivariate calibration by ANN, 370 (1998) 65

## Nonlinear modeling

Evaluation of nonlinear model building strategies for the determination of glucose in biological matrices by near-infrared spectroscopy, 384 (1999) 333

# Nonlinear partial least squares regression

Determination of mixed metal ions by complexometric titration and nonlinear partial least squares calibration, 304 (1995) 217

# Non-linear PLS

Determination of acid value, hydroxyl value and water content in reactions between dicarboxylic acids and diols using nearinfrared spectroscopy and non-linear partial least squares regression, 349 (1997) 287

# Non-linear principal component analysis (NPCA)

Neural network learning to non-linear principal component analysis, 336 (1996) 209

# Nonlinear properties

Spectroscopic prediction of nonlinear properties by principal component regression, 348 (1997) 345

# Non-linear regression

The Radial Basis Functions - Partial Least Squares approach as a flexible non-linear regression technique, 331 (1996) 177

Comparison of methodologies for determination of carboxylic and phenolic groups in humic acids, 364 (1998) 223

A common framework for the unification of neural, chemometric and statistical modeling methods, 384 (1999) 227

#### Non-linearities

Correction of non-linearities in spectroscopic multivariate calibration by using transformed original variables and PLS regression, 349 (1997) 271

Correction of non-linearities in spectroscopic multivariate calibration by using transformed original variables. Part II. Application to principal component regression, 389 (1999) 115

#### Non-linearity

Robust regression used for the treatment of partial non-linearity in multivariate calibration, 313 (1995) 185

Non-linearity with metal-metal ligand complex reactions in flow injection systems. Metal-thiocyanate reactions, 350 (1997) 37

Detection of nonlinearity in multivariate calibration, 376 (1998) 153

Calibration in non-linear near infrared reflectance spectroscopy: a comparison of several methods, 384 (1999) 207

## Non-phosphorylated

Estimation of calcium-binding constants of casein phosphopeptides by capillary zone electrophoresis, 372 (1998) 291

## Non-polar compounds

Influence of ionization energy on charge-transfer ionization in matrix-assisted laser desorption/ionization mass spectrometry, 397 (1999) 235

#### Non-selective chemical sensors

Chemical sensor array for multicomponent analysis of biological liquids, 385 (1999) 131

## Nonseparation immunoassay

Competitive nonseparation electrochemical enzyme binding/immunoassay (NEEIA) for small molecule detection, 357 (1997) 5

## Non-specific adsorption

Immunoaffinity chromatography of polycyclic aromatic hydrocarbons in columns prepared by the sol-gel method, 339 (1997) 241

## Non-steroidal anti-inflammatory drugs

A comparison between different approaches to estimate the aqueous  $pK_a$  values of several non-steroidal anti-inflammatory drugs, 338 (1997) 127

Dissociation constants of several non-steroidal anti-inflammatory drugs in isopropyl alcohol/water mixtures, 350 (1997) 249

## Non-thermal microwave effect

Perturbation of a solid phase separation process by a non-thermal microwave effect, 387 (1999) 113

#### Nontronite

Adsorptive potentiometric stripping analysis of dopamine on claymodified electrode, 372 (1998) 315

#### NO2-PAH

Sensitive absorption detection for micro-column liquid chromatography by ultraviolet forward-scattering degenerate four-wave mixing, 390 (1999) 55

## Norephedrine

Amperometric determination of sympathomimetic drugs by flow injection analysis with a metallic copper electrode, 379 (1999)

## Norepinephrine

On-line coupling of isolation/in situ concentration integrated with derivative synchronous spectrofluorimetry for the simultaneous determination of epinephrine and norepinephrine in urine, 317 (1995) 335

Peroxidase-based spectrophotometric methods for the determination of ascorbic acid, norepinephrine, epinephrine, dopamine and levodopa, 357 (1997) 261

#### Norfloxacin

Stopped flow kinetic determination of nalidixic acid and norfloxacin based on lanthanide-sensitized fluorescence, 303 (1995) 39

## Normal coordinate analysis

Liquid chromatographic and infrared studies on ethylenediamineplatinum(II) guanosine complexes, 324 (1996) 155

#### Normal levels

Flow injection method for determination of uranium in urine and serum by inductively coupled plasma mass spectrometry, 334 (1996) 295

## Normal phase

Solute-solvent interactions in normal-phase liquid chromatography: a linear free-energy relationships study, 382 (1999) 301

## Normal phase liquid chromatography

Study of the influence of N-benzylideneanilines conformation on retention in normal phase liquid chromatography, 356 (1997) 187

Characterization and selectivity optimization on diol, amino, and cyano normal phase columns based on linear solvation energy relationships, 368 (1998) 141

Application of linear solvation energy relationships to guide selection of polar modifiers in normal-phase liquid chromatographic separations, 395 (1999) 85

## Normal-phase LC

Automated sample clean-up procedure for organophosphorus pesticides in several aquatic organisms using normal phase liquid chromatography, 374 (1998) 215

## N-Phenylbenzohydroxamic acid

High-performance liquid chromatography with electrochemical detection for the determination of vanadium(V) in river water and mussel samples, 327 (1996) 203

#### N-Phenylcinnamohydroxamic acid

Differential pulse anodic stripping voltammetric determination of copper(II) with N-phenylcinnamohydroxamic acid modified carbon paste electrodes, 368 (1998) 165

## ω-(N-pyrrolyl)alkanethiols

Surface-confined monomers on electrode surfaces Part 3. Electrochemical reactions and scanning probe microscopy investigations of  $\omega$ -(N-pyrrolyl) alkanethiol self-assembled monolayers on gold, 307 (1995) 269

#### NRC

Instrumentation, standards, and procedures used at the National Research Council of Canada for high-accuracy fluorescence measurements, 380 (1999) 193

#### NRD convertase

Peptides as tools for studying propeptide and proprotein processing, 352 (1997) 155

#### NTA

Inhibition of Pb redistribution by two complexing agents (cryptand and NTA) during a sequential extraction of soil models, 347 (1997) 313

Determination of the solubility products of nitrilotriacetic acid, ethylenediaminetetraacetic acid and diethylenetriaminepentaacetic acid, 380 (1999) 105

# N-Thiocarbamoylimine-dithioether

Iodide-selective electrodes based on the silver(I) complex of a novel N-thiocarbamoylimine-dithioether derivative, 329 (1996) 247

## **Nuclear fuels**

Vacuum fusion-mass spectrometric determination of H, N and O in U<sub>3</sub>Si fuel using the standard addition technique, 316 (1995) 337

## Nuclear magnetic resonance

Assessment of the intermediate phase in milk fat by low-resolution nuclear magnetic resonance, 311 (1995) 217

Fast calculation of  $\pi$ -electron charge densities in organic molecules: Non-condensed compounds, 314 (1995) 101

Multi-method characterization of lake aquatic humic matter isolated with two different sorbing solids, 363 (1998) 235

Multimethod characterization of lake aquatic humic matter isolated with sorbing solid and tangential membrane filtration, 364 (1998)

## Nuclear magnetic resonance spectrometry

Investigations on intermediate acetal formation during polarographic estimation of certain benzaldehyde derivatives, 307 (1995) 55

Nuclear magnetic resonance spectroscopic analysis of the selective complexation of the cis and trans isomers of phenylalanylproline by β-cyclodextrin, 307 (1995) 449

New parameters for predicting <sup>1</sup>H NMR chemical shifts of protons attached to carbon atoms, 312 (1995) 95

Using multivariate methods on solid-state <sup>13</sup>C NMR data of complex materials, 315 (1995) 1

Using similarity searches over databases of estimated <sup>13</sup>C NMR spectra for structure identification of natural product compounds, 316 (1995) 161

A new topological index for the Changchun Institute of Applied Chemistry <sup>13</sup>C NMR information system, 318 (1995) 117

The simulation of <sup>13</sup>C nuclear magnetic resonance spectra of dibenzofurans using multiple linear regression analysis and neural networks, 321 (1996) 127 Site-specific natural isotope fractionation in fruit juices determined by deuterium NMR An European inter-laboratory comparison study, 321 (1996) 137

Direct determination of diastereomeric <sup>13</sup>C-labeled ketoprofen glucuronides in human urine by nuclear magnetic resonance spectroscopy, 334 (1996) 67

Characterisation of an unusual crystalline efflorescence on an Egyptian limestone relief, 337 (1997) 151

Investigation of the composition of a unique efflorescence on calcareous museum artifacts, 337 (1997) 253

Determination of 3,4-methylenedioxyamphetamine analogues ("ecstasy") by proton nuclear magnetic resonance spectrometry, 339 (1997) 259

Factor analysis of time domain NMR data: crystallinity of poly(tetrafluoroethene), 344 (1997) 261

#### Nuclear resonance spectroscopy

Characterization and differentiation of humic acids and fulvic acids in soils from various regions of China by nuclear magnetic resonance spectroscopy, 395 (1999) 199

#### Nuclear waste

Separation and preconcentration of actinides by extraction chromatography using a supported liquid anion exchanger: application to the characterization of high-level nuclear waste solutions, 310 (1995) 63

## Nuclear waste solutions

3-Phenyl-4-benzoyl-5-isoxazolone: A promising chelate extractant for actinide separation from acidic nuclear waste solutions, 320 (1996) 151

#### Nucleation

Inverse derivative chronopotentiometry/quartz crystal microgravimetry of solid conducting salt films, 380 (1999) 47

## Nucleic acid hybridization at surfaces

Electrochemical analysis of formation of polynucleotide complexes in solution and at electrode surfaces, 344 (1997) 65

#### Nucleic acid recognition

DNA electrochemical biosensors for environmental monitoring. A review, 347 (1997) 1

## Nucleic acids

Trace measurements of nucleic acids using flow injection amperometry, 319 (1996) 347

Genosensor technology and the detection of interfacial nucleic acid chemistry, 346 (1997) 259

A strategy for the broad range detection of compounds with affinity for nucleic acids, 347 (1997) 79

Determination of trace adenine, adenosine and adenosine monophosphate by 2nd-order derivative adsorption chronopotentiometry, 347 (1997) 263

Determination of DNA and RNA by their quenching effect on the fluorescence of the Tb<sup>3+</sup>-Tiron complex, 353 (1997) 329

Study on the dimer-monomer equilibrium of a fluorescent dye and its application in nucleic acids determination, 361 (1998) 9

Simple and sensitive assay for nucleic acids by use of Rayleigh light scattering technique with rhodamine B, 379 (1999) 39 Quercetin-La(III) complex for the fluorimetric determination of nucleic acids, 381 (1999) 17

A chemiluminescence derivatization method for detecting nucleic acids and DNA probes using a trimethoxyphenylglyoxal reagent that recognizes guanine, 381 (1999) 155

Molecular spectroscopic study of DNA binding with neutral red and application to assay of nucleic acids, 396 (1999) 75

#### Nucleosides

Thin layer chromatography and principal component analysis for the study of the interaction of amino acids with some antisense nucleosides, 316 (1995) 105

## Nucleosides and their bases

Separation of nucleosides and their bases by reversed-phase liquid chromatography using pure water as the mobile phase, 353 (1997) 143

#### Nucleotides

Hydrogen bond based recognition of nucleotides by neutral-carrier ion-selective electrodes, 341 (1997) 129

A transient enzymatic inhibition as an efficient tool for the discriminating bioluminescent analysis of three adenylic nucleotides with a fiberoptic sensor based on a compartmentalized tri-enzymatic sensing layer, 360 (1998) 89

#### Null-point potentiometry

Continuous-flow determination system based on null-point potentiometry using a nitrate ion-selective membrane, 355 (1997) 211

## **Numerical approximation**

On the evaluation of turnover frequencies in unicyclic homogeneous catalysis. Experimental, numerical, and statistical aspects, 374 (1998) 67

## **Numerical simulation**

Numerical simulation of crude oil behaviour from chromatographic data, 317 (1995) 107

# **Nutrient chemistry**

A flexible computer-based technique for the analysis of data from a sea-going nutrient autoanalyser, 345 (1997) 197

# Nutrient preservation

Assessment of heat treatment for nutrient preservation in seawater samples, 351 (1997) 299

#### Nutrients

Application of photoacoustic spectrometry to flow-injection analysis, 308 (1995) 20

#### **Nutritional supplements**

Direct chemiluminescence determination of ascorbic acid using flow injection analysis, 356 (1997) 289

## n-Valeric acid

A new derivatization reagent 2-(pentafluorophenoxy)ethyl 2-(piperidino)ethanesulfonate for gas chromatography, 386 (1999) 113



# $\delta^{18}O$ values of organic compounds

On-line determination of  $\delta^{18}$ O values of organic substances, 319 (1996) 159

#### o-, m- and p-Cresol

Resolution of phenol, o-cresol, m-cresol and p-cresol mixtures by excitation fluorescence using partial least-squares (PLS) multivariate calibration, 335 (1996) 23

## Observable reactions

On the number of observable species, observable reactions and observable fluxes in chemometric studies and the role of multi-channel integration, 351 (1997) 337

# Observable species

On the number of observable species, observable reactions and observable fluxes in chemometric studies and the role of multi-channel integration, 351 (1997) 337

#### Oceanic waters

Rapid and simultaneous analysis of trace metals (Cu, Pb and Cd) in seawater by potentiometric stripping analysis, 351 (1997)

#### Octadecyl silica disks

Solid phase extraction and determination of ultra trace amounts of mercury(II) using octadecyl silica membrane disks modified by hexathia-18-crown-6-tetraone and cold vapour atomic absorption spectrometry, 355 (1997) 69

## Octane number

Qualitative and quantitative determination of oxygenates in gasolines using <sup>1</sup>H nuclear magnetic resonance spectroscopy, 391 (1999) 277

## Octanol-water partition coefficient

Determination of octanol-water partition coefficients using gradient liquid chromatography, 315 (1995) 183

Octanol-water partition coefficients of substituted phenols and their correlation with molecular descriptors, 315 (1995) 193

## Ocytocin

Peptides as tools for studying propeptide and proprotein processing, 352 (1997) 155

#### Odorant sensors

Highly sensitive trilayer piezoelectric odor sensor, 387 (1999) 39

## Odour recognition

Neural network based electronic nose for the classification of aromatic species, 348 (1997) 503

#### ODS

Separation of nucleosides and their bases by reversed-phase liquid chromatography using pure water as the mobile phase, 353 (1997) 143

## Oestrogenic environmental pollutant

Determination of bisphenol A (BPA) in water by gas chromatography-mass spectrometry, 346 (1997) 87

## Ofloxacin

Polarographic and voltammetric behaviour of ofloxacin and its analytical application, 307 (1995) 49

#### Ohmic resistance

Voltammetric and amperometric study of electrochemical activity of boron-doped polycrystalline diamond thin film electrodes, 333 (1996) 125

## Oil and grease analysis

Determination of oil and grease by solid phase extraction and infrared spectroscopy, 395 (1999) 77

#### Oil and grease determination

Evaluation of extraction alternatives for Fourier transform infrared spectrometric determination of oil and greases in water, 345 (1997) 161

#### Oil contamination

Fast screening of contaminated soil samples using thermal desorption mass spectrometry, 315 (1995) 159

## Oil products

Determination of lead in oil products by derivative potentiometric stripping analysis, 386 (1999) 41

#### Oils

Membrane extraction-preconcentration cell coupled on-line to flowinjection and liquid chromatographic systems. Determination of triazines in oils, 304 (1995) 323

Liquid chromatographic determination of base oil composition and content in lubricating oils containing dispersants of the polybutenylsuccinimide type, 306 (1995) 73

#### Okadaic acid

Semi-automated membrane based chemiluminescent immunosensor for flow injection analysis of okadaic acid in mussels, 398 (1999) 173

#### Olefaction

An artificial nose based on a micromechanical cantilever array, 393 (1999) 59

#### Olefin sensor

Application of piezoelectric Ru(III)/cryptand-coated quartz crystal gas chromatographic detector for olefins, 380 (1999) 55

## Olefin vapour detector

Detection of olefin vapours with silver(I)/cryptand-coated piezoelectric crystal sensors, 350 (1997) 109

## Oleic acid

Automated flow injection spectrophotometric non-aqueous titrimetric determination of the free fatty acid content of olive oil, 351 (1997) 291

## Olfactometry

Development of a chemical vapor sensor using piezoelectric quartz crystals with coated unusual lipids, 340 (1997) 41

## Oligocional bands

Heterogeneous humoral immune responses in cerebrospinal fluid arising from inflammatory diseases of the human central nervous system. Detection of oligoclonal immunoglobulin bands after isoelectric focusing, 393 (1999) 83

## Oligo-element analysis

Simultaneous adsorptive stripping voltammetric determination of molybdenum(VI), uranium(VI), vanadium(V), and antimony(III), 394 (1999) 81

#### Oligoelements

Determination of oligoelements in wheat, 343 (1997) 241

## Oligomethylene bridged bis-1,10-phenanthroline derivatives

PVC membrane lithium-selective electrodes based on oligomethylene-bridged bis-1,10-phenanthroline derivatives, 329 (1996) 57

## Oligonucleotide monolayer

Amplified electronic transduction of oligonucleotide interactions: novel routes for Tay-Sachs biosensors, 385 (1999) 33

## Oligonucleotides

Evaluating the quality of oligonucleotides that are immobilized on glass supports for biosensor development, 395 (1999) 273

## Oligosaccharide dehydrogenase

Flow injection amperometric determination of glucose and some other low molecular weight saccharides based on oligosaccharide dehydrogenase mediated by benzoquinone systems, 310 (1995) 161

An enzymatic amplification cycle for high sensitive immunoassay, 328 (1996) 27

## Oligosaccharides

Energetics of cross-ring cleavages and their relevance to the linkage determination of oligosaccharides, 307 (1995) 431

#### Olive oil

A fuzzy filter for removing interferences among membership grade functions An application to pre-treatment of data in olive oil authentication, 312 (1995) 281

An automated flow-reversal injection/liquid-liquid extraction approach to the direct determination of total free fatty acids in olive oils, 318 (1996) 187

On line coupling of a liquid-liquid extraction flow-reversal system to a spectrophotometric flow-through sensor for the determination of polyphenols in olive oil, 323 (1996) 55

Discrimination of the variety and region of origin of extra virgin olive oils using <sup>13</sup>C NMR and multivariate calibration with variable reduction, 348 (1997) 357

Automated flow injection spectrophotometric non-aqueous titrimetric determination of the free fatty acid content of olive oil, 351 (1997) 291

Direct parallel flow injection multichannel spectrophotometric determination of olive oil peroxide value, 389 (1999) 239

#### Olive seeds

A multivariate study of the performance of a microwave-assisted Soxhlet extractor for olive seeds, 382 (1999) 309

## o-Nitrophenol

Characterization of organic matter in fractionated seawater samples using o-nitrophenol as an electrochemical probe, 338 (1997) 179

#### On-line

Continuous measurement of lactate in microdialysate, 351 (1997) 127

Microwave-assisted sample decomposition in flow analysis, 366 (1998) 63

Use of 4-(2-pyridylazo)resocinol or 2-(2-pyridylazo)-5-dimethylaminophenol as chelating agent for determination of cadmium in seawater by atomic absorption spectrometry with on-line flowinjection sorbent extraction, 376 (1998) 305

A compact titration configuration for process analytical applications, 378 (1999) 211

Standard addition method in FIA. Comparison between different assemblies, 379 (1999) 89

#### On-line analysis

Monitoring of enzymatic hydrolysis of ivory nut mannan using online microdialysis sampling and anion-exchange chromatography with integrated pulsed electrochemical detection, 313 (1995) 15

Validation and in situ application of an automated dissolved nickel monitor for estuarine studies, 371 (1998) 235

Validation and in situ application of an automated dissolved nickel monitor for estuarine studies, 377 (1998) 217

# On-line coprecipitation

Flow injection on-line coprecipitation-preconcentration system using copper(II) diethyldithiocarbamate as carrier for flame atomic absorption spectrometric determination of cadmium, lead and nickel in environmental samples, 353 (1997) 181

#### On-line derivatization and preconcentration

Simultaneous determination of trace amounts of nickel, copper and mercury by liquid chromatography coupled with flow-injection on-line derivatization and preconcentration, 369 (1998) 215

## On-line desalting device

Capillary isoelectric focusing with whole column detection and a membrane sample preparation system, 383 (1999) 67

#### On-line determination

Solvent impregnated hollow fibre for a selective preconcentration of Pb(II) in an on-line determination by flame atomic absorption spectrometry, 370 (1998) 141

## On-line dilution

Automatic continuous-flow determination of sulphite in the presence of a high concentration of thiosulphate, 302 (1995) 269

Use of submicroliter-volume samples for extending the dynamic range of flow-injection flame atomic absorption spectrometry, 308 (1995) 85 Determination of highly concentrated Na, K, Mg and Ca in dialysis solution with flow injection on-line dilution and flame atomic absorption spectrometry, 331 (1996) 263

## On-line fermentation monitoring

Automated monitoring of amino acids during fermentation processes using on-line ultrafiltration and column liquid chromatography: application to fermentation medium improvement, 303 (1995) 175

#### On-line identification

On-line fault detection of flow-injection analysis systems based on recursive parameter estimation, 313 (1995) 161

# On-line microwave-assisted hydrolysis

Flow injection spectrophotometric determination of paracetamol in pharmaceuticals by means of on-line microwave-assisted hydrolysis and reaction with 8-hydroxyquinoline (8-quinolinol), 330 (1996) 59

A clean analytical method for the spectrophotometric determination of formetanate incorporating an on-line microwave assisted hydrolysis step, 390 (1999) 147

## On-line microwave digestion

Arsenic speciation in biological samples by on-line high performance liquid chromatography-microwave digestion-hydride generation-atomic absorption spectrometry, 334 (1996) 261

A time-based flow injection-cold vapor-atomic absorption spectrometry system with on-line microwave sample pre-treatment for the determination of inorganic and total mercury in urine, 369 (1998) 57

#### On-line monitoring

Methods for on-line monitoring to be implemented in an ammonium thiosulphate production plant, 308 (1995) 187

An on-line flow-injection analysis system for the determination of acetate, 316 (1995) 117

On-line monitoring of glucose and penicillin by sequential injection analysis, 320 (1996) 199

Design and development of a miniaturised total chemical analysis system for on-line lactate and glucose monitoring in biological samples, 346 (1997) 341

Prototype of a newly developed immunochemical detection system for the determination of pesticide residues in water, 347 (1997) 187

Simultaneous monitoring of glucose and L-lactic acid during a fermentation process in an aqueous two-phase system by online FIA with microdialysis sampling and dual biosensor detection, 366 (1998) 127

Affinity liquid membrane introduction mass spectrometry, 395 (1999) 239

#### On-line preconcentration

On-line preconcentration of aluminium with immobilized Chromotrope 2B for the determination by flame atomic absorption spectrometry and inductively coupled plasma mass spectrometry, 304 (1995) 121

- Mathematical procedure for the determination of the breakthrough volumes of polycyclic aromatic hydrocarbons (PAHs), 346 (1997) 253
- Determination of cadmium in seawater using automated on-line preconcentration and direct injection graphite furnace atomic absorption spectrometry, 377 (1998) 255
- On-line ion-exchange preconcentration in a flow injection system coupled to capillary electrophoresis for the direct determination of UV absorbing anions, 390 (1999) 39

## On-line preconcentration of Cr(VI)

Selective flow-injection quantification of ultra-trace amounts of Cr(VI) via on-line complexation and preconcentration with APDC followed by determination by electrothermal atomic absorption spectrometry, 366 (1998) 163

## On-line process analysis

On-line flow injection monitoring of ammonia in industrial liquid effluents, 314 (1995) 33

## On-line process control

Development of an extremely flexible automatic analyzer with integrated biosensors for on-line control of fermentation processes, 315 (1995) 113

## On-line pyrolysis

On-line pyrolysis of hydrocarbons coupled to high-precision carbon isotope ratio analysis, 397 (1999) 217

## On-line reactions

Determination of acetaminophen by flow injection with on-line chemical derivatization: Investigations using visible and FTIR spectrophotometry, 364 (1998) 107

# Online recycling of solvents

On-line solvent recycling: a tool for the development of clean analytical chemistry in flow injection Fourier transform infrared spectrometry. Determination of ketoprofen, 361 (1998) 253

## On-line reduction

Sequential injection sandwich technique for the simultaneous determination of nitrate and nitrite, 371 (1998) 63

# On-line reduction of As(V) via heating/cooling using potassium iodide

Determination of As(III) and As(V) by flow injection-hydride generation-atomic absorption spectrometry via on-line reduction of As(V) by KI, 343 (1997) 5

#### On-line sorbent extraction

1,10-Phenanthroline as a complexing agent for on-line sorbent extraction/preconcentration for flow injection-flame atomic absorption spectrometry, 392 (1999) 283

# On-line techniques

On-line sample handling strategies for the trace-level determination of pesticides and their degradation products in environmental waters, 318 (1995) 1

## **OPA** derivatization

Flow-injection immunoassay using OPA derivatization, 374 (1998) 177

#### OPEES

A new organic phase enzyme electrode for the analysis of organophosphorus pesticides and carbamates, 385 (1999) 59

Analysis of several real matrices using new mono-, bi-enzymatic, or inhibition organic phase enzyme electrodes, 393 (1999) 109

#### Open circuit

Stability of preplated mercury coated platinum and carbon fibre microelectrodes, 327 (1996) 211

## Open circuit accumulation

Determination of mercury by open circuit adsorption stripping voltammetry on a platinum disk electrode, 319 (1996) 25

## Open flow tubes

Evaluation of a predictive steady-state flow-injection method adapted to an open flow tube with a tracer, 303 (1995) 199

## Open microflow

In vivo glucose monitoring with open microflow – influences of fluid composition and preliminary evaluation in man, 385 (1999) 23

#### Opened loop

Continuous sample recirculation in an opened-loop multicommutated flow system, 377 (1998) 103

## Operational and storage stability

Improved stability and altered selectivity of tyrosinase based graphite electrodes for detection of phenolic compounds, 387 (1999) 309

# Operational speciation

Use of a certified reference material for extractable trace metals to assess sources of uncertainty in the BCR three-stage sequential extraction procedure, 382 (1999) 317

## (Operator+instrument+time)-different intermediate precision

Comparison of alternative measurement methods, 391 (1999) 203

# o-Phenanthroline

Comparison of various peak evaluation techniques for limited and extended dynamic ranges in flow injection systems, 364 (1998) 97

# o-Phenylenediamine

Fluorimetric determination of epinephrine with o-phenylenediamine, 363 (1998) 105

Organic solvent enhanced spectrofluorimetric method for determination of laccase activity, 374 (1998) 99

Speciation of iron in river and tap waters by catalytic spectrophotometry using oxidation of o-phenylenediamine with hydrogen peroxide, 388 (1999) 35

## o-phthalaldehyde

A fluorescence flow injection method for the quantitation of cyanide: its application to the quantitation of bound cyanide in cassava using an immobilized linamarase bioreactor, 354 (1997) 189

## Opioid peptides

Liquid chromatography of peptides treated with fluorogenic reagents and its application to analyses of opioid peptides, their precursors and related enzymes in rat brain, 352 (1997) 103

Analytical and preparative capillary zone electrophoresis of opioid peptides, 383 (1999) 79

#### Optic sensor

Determination of terbium with solid surface room temperature luminescence optosensing, 322 (1996) 167

## Optical absorbance detector

An affordable high-performance optical absorbance detector for capillary systems, 342 (1997) 123

## Optical active linalools

Sedative effect on humans of inhalation of essential oil of linalool: . Sensory evaluation and physiological measurements using optically active linalools, 365 (1998) 293

## Optical activity

Micro-interferometric backscatter detection using a diode laser, 400 (1999) 265

# Optical beam deflection

Monitoring and analyzing of a chemical reaction process using reaction heat-induced optical beam deflection, 316 (1995) 111

# Optical brighterer

Standards for the measurement of diffuse reflectance – an overview of available materials and measurement laboratories, 380 (1999) 379

## Optical density

On-line and off-line monitoring of the production of alkaline serine protease by Bacillus licheniformis, 317 (1995) 247

## Optical detection

Optical films for protamine detection with lipophilic dichlorofluorescein derivatives, 334 (1996) 139

## Optical fibre sensor

Extending the response range of an optical fibre pH sensor using an artificial neural network, 330 (1996) 31

# Optical fibres

Determination of pesticides in water using ATR-FTIR spectroscopy on PVC/chloroparaffin coatings, 334 (1996) 85

Chemical vapour sensing by surface plasmon resonance optical fibre sensor coated with fluoropolymer, 337 (1997) 225

Covalent immobilization of single-stranded DNA onto optical fibers using various linkers, 344 (1997) 201

Sol-gel horseradish peroxidase biosensor for hydrogen peroxide detection by chemiluminescence, 363 (1998) 221

Determination of choline-containing phospholipids in serum with a fiber-optic biosensor, 374 (1998) 19

Semi-automated membrane based chemiluminescent immunosensor for flow injection analysis of okadaic acid in mussels, 398 (1999) 173

## **Optical filters**

Challenges in providing standard reference materials for chemical and pharmaceutical process analysis, 380 (1999) 115

## Optical geometry

Introduction to measurement of color of fluorescent materials, 380 (1999) 183

#### Optical immunoprobes

Label free optical immunoprobes for pesticide detection, 347 (1997) 219

#### Optical ion sensor

Active optical thin-film waveguide sensor for ion sensing, 343 (1997) 199

# Optical isomer

Preparation and properties of enzyme sensors for L-lactic and Dlactic acids in optical isomers, 368 (1998) 91

## Optical methods

On-line remote prediction of gasoline properties by combined optical methods, 339 (1997) 193

# Optical oxygen sensor

Porphyrin-doped sol-gel glass as a probe for oxygen sensing, 342 (1997) 181

## Optical resolution

Molecularly imprinted polymeric membranes involving tetrapeptide EQKL derivatives as chiral-recognition sites toward amino acids, 365 (1998) 59

#### **Optical saturation**

Optical saturation, diffusion and convection effects in thermal lens spectrometry, 307 (1995) 145

Optical saturation thermal lens spectrometry in non-polar solvents, 345 (1997) 257

## Optical sensing

Selective optical response to oxygen of membranes based on immobilized cobalt(II) porphyrins, 338 (1997) 119

#### Optical sensors

New polar plasticizers for luminescence-based sensors, 337 (1997) 201

Optical sensing of pH based on polypyrrole films, 334 (1996) 149 Planar waveguide ion-selective sensors, 353 (1997) 1

Optical sensing of pH using thin films of substituted polyanilines, 357 (1997) 247

Synthesis and characterization of fluorophore-absorber pairs for sensing of ammonia based on fluorescence, 360 (1998) 119

pH optical sensors based on sol-gels: Chemical doping versus covalent immobilization, 367 (1998) 159

Optical sensor for high pH values, 367 (1998) 167

Linear calibration function for optical oxygen sensors based on quenching of ruthenium fluorescence, 368 (1998) 83 Molecular design, characterization, and application of multi-information dyes for multi-dimensional optical chemical sensing. Molecular design concepts of the dyes and their fundamental spectral characteristics, 373 (1998) 271

Optical sensing of sulfite with a phosphorescent probe, 374 (1998) 1 Monitoring Pb<sup>2+</sup> with optical sensing films, 388 (1999) 327

Overcoming the pH dependency of optical sensors: a pH-independent chloride sensor based on co-extraction, 398 (1999) 137

#### Optical tomography

Optical tomographic reconstruction from diffuse remittance in scattering media using partial least squares estimation, 348 (1997) 553

# Optimal brain surgeon

The optimal brain surgeon for pruning neural network architecture applied to multivariate calibration, 375 (1998) 187

## Optimal buffer system

Alkaline phosphatase as a label for immunoassay using amperometric detection with a variety of substrates and an optimal buffer system, 393 (1999) 95

## Optimal experimental design

Spectroscopic factors optimization in electrothermal atomic absorption spectrometry via an optimal experimental design matrix, 350 (1997) 171

Electrothermic factors optimization in electrothermal atomic absorption spectrometry via an optimal experimental design matrix, 368 (1998) 59

## Optimal separation

The quality of quantitation in chromatography Part II. Optimizing the quantitative analysis, 333 (1996) 11

## Optimal settings

The quality of optimisation by genetic algorithms, 388 (1999) 265

## Optimisation

Selectivity optimization after prediction of the migration behaviour of anions in capillary ion analysis in the presence of micelles, 310 (1995) 27

An integrated design strategy for flow-injection analysis based on the coupling of mathematical modelling and optimization algorithms, 310 (1995) 289

Orthogonal array design for the optimization of closed-vessel microwave digestion parameters for the determination of trace metals in sediments, 314 (1995) 121

Modeling energy transfer in a focused microwave digestor, 318 (1996) 261

Comparison of optimization algorithms for piecewise linear discriminant analysis: application to Fourier transform infrared remote sensing measurements, 331 (1996) 157

Modelling and optimization of the separation of steroids eluted with a micellar mobile phase of sodium dodecyl sulphate containing acetonitrile, 333 (1996) 31

Simplex optimization of reaction variables in the production of cobalt(III) acetate in a bipolar packed-bed reactor, 335 (1996) 35

A novel strategy for systematic optimization of micellar electrokinetic chromatography separations, 342 (1997) 133 Independent neural network modeling of class analogy for classification pattern recognition and optimization, 342 (1997) 223

Development of a highly sensitive enzyme-linked immunosorbent assay for atrazine Performance evaluation by flow injection immunossay, 347 (1997) 149

Study of different criteria for the selection of a rugged optimum in high performance liquid chromatography optimisation, 348 (1997) 223

Combined experimental design and information theory for the optimization of supercritical fluid extraction of organic priority pollutants from sediment, 351 (1997) 377

Separation of barbiturates in micellar liquid chromatography by means of a multifactor design, 356 (1997) 19

Application of neural networks for response surface modeling in HPLC optimization, 364 (1998) 265

Application of the split-plot experimental design for the optimization of a catalytic procedure for the determination of Cr(VI), 369 (1998) 269

Design and evaluation of an improved simplex method, 371 (1998)

A new multivariate approach for the optimisation of the simultaneous distillation-extraction technique for free fatty acids using a face centred cube experimental design: application to Parmigiano-Reggiano cheese, 386 (1999) 169

Optimisation of structure representation for QSAR studies, 388 (1999) 243

A novel peak-hopping stepwise feature selection method with application to Raman spectroscopy, 388 (1999) 251

Design and evaluation of an effective modified simplex method, 391 (1999) 257

Sorting measurement queues to speed up the flow injection analysis mass spectrometry of combinatorial chemistry syntheses, 394 (1999) 33

Evaluation of several global resolution functions for liquid chromatography, 396 (1999) 61

# Optimization criteria

Application of the pattern-recognition method for modelling expert estimation of chromatogram quality, 369 (1998) 47

## Optimization of resolution

Global treatment of chromatographic data with MICHROM, 348 (1997) 187

## Optochemical sensing

Optochemical sensing by immobilizing fluorophore-encapsulating liposomes in sol-gel thin films, 400 (1999) 45

## Optode membranes

Response function and analytical parameters of nitrite-selective optode membranes in absorbance and fluorescence mode, 355 (1997) 259

Optode for the specific determination of anionic surfactants, 361 (1998) 55

Optosensing of cationic surfactants based on host-guest chemistry, 370 (1998) 259

Ionophores, ligands and reactands, 400 (1999) 65

# Optodes

Nafion-based optode for the detection of metal ions in flow analysis, 319 (1996) 127

Ammonia fluorosensors based on reversible lactonization of polymer-entrapped rhodamine dyes, and the effects of plasticizers, 334 (1996) 113

Active optical thin-film waveguide sensor for ion sensing, 343 (1997) 199

Selectivity comparison of neutral carrier-based ion-selective optical and potentiometric sensing schemes, 350 (1997) 329

Fluorescent sensor based on newly synthesized fluorescein octadecyl ether octadecyl ester (FODEE) for direct determination of phenols in aqueous solutions, 351 (1997) 197

Fiber-optic pH sensor based on Poly(o-methoxyaniline), 353 (1997)

Molecular design, characterization, and application of multi-information dyes for multi-dimensional optical chemical sensing. Molecular design concepts of the dyes and their fundamental spectral characteristics, 373 (1998) 271

Dissociation of Ferroin in acidic solutions and Nafion <sup>®</sup> membranes, 395 (1999) 27

Ion-selective optode membranes using 9-(4-diethylamino-2-octadecanoatestyryl)-acridine acidochromic dye, 398 (1999) 1

## Optoelectrochemical detection

Simultaneous flow injection determination of iron(II) and iron(III) with opto-electrochemical detection, 354 (1997) 43

## Optosensing

Sol-gel immobilized room-temperature phosphorescent metal-chelate as luminescent oxygen sensing material, 360 (1998) 17

# Optosensor

An optosensor for riboflavin with C<sub>18</sub> silica gel as a substrate, 339 (1997) 161

A selective optosensor for UV spectrophotometric determination of thiamine in the presence of other vitamins B, 376 (1998) 227

## Optrode

New hydrophobic materials for optical carbon dioxide sensors based on ion pairing, 302 (1995) 249

## Ores

Determination of germanium(IV) in sulphide ores by differential pulse polarography in pyrogallol-sulfuric acid media, 306 (1995) 243

A new method for extracting and purifying lead from difficult matrices for isotopic analysis, 332 (1996) 15

Comparison of chemical modifiers used for the determination of gold in ores by electrothermal atomic absorption spectrometry, 362 (1998) 247

#### Organic acids

Reverse-phase optode. Design and characterization of an organic acid-selective optode membrane based on fluorescein sodium, 322 (1996) 99

Potentiometric detection of organic acids in liquid chromatography using conducting oligomer electrodes, 370 (1998) 105

Simultaneous determination of sugars and organic acids by coelectroosmotic capillary electrophoresis with amperometric detection at a disk-shaped copper electrode, 371 (1998) 81

Potentiometric detection in capillary electrophoresis with a conducting oligomer electrode, 385 (1999) 417

#### Organic amines

Piezoelectric sensor for detection of organic amines in aqueous phase based on a polysiloxane coating incorporating acidic functional groups, 345 (1997) 29

# Organic analysis

Adsorption voltammetric determination of μg 1<sup>-1</sup> levels formaldehyde via in situ derivatization with Girard's reagent T, 339 (1997) 173

Evaluation of silver substrates for surface-enhanced Raman detection of drugs banned in sport practices, 376 (1998) 255

#### Organic complexation

Determination of dissolved manganese(II) in coastal and estuarine waters by differential pulse cathodic stripping voltammetry, 344 (1997) 175

## Organic conducting salt

Electropolymerization of pyrrole and phenylenediamine over an organic conducting salt based amperometric sensor of increased selectivity for glucose determination, 385 (1999) 203

#### Organic matter

Characterization of organic matter in fractionated seawater samples using o-nitrophenol as an electrochemical probe, 338 (1997) 179 Voltammetric study of the interaction between Se(IV) and dissolved organic matter in environmental aqueous matrices, 385 (1999)

The effect of freshwater UV-irradiation prior to resin preconcentration of trace metals, 386 (1999) 155

pH, alkalinity and total CO<sub>2</sub> in coastal seawater by potentiometric titration with a difference derivative readout, 394 (1999) 101

#### Organic media

Immunosensor for trace determination of Irgarol 1051 in seawater using organic media, 387 (1999) 227

#### Organic mixtures

IR quantitative analysis of organic mixtures without any calibration, 353 (1997) 105

#### Organic modifiers

Modelling of the elution behaviour in hybrid micellar eluents with different organic modifiers, 381 (1999) 275

## Organic molecules

Mimicking the olfactory system by a thickness-shear-mode acoustic sensor array, 335 (1996) 117

Piezoelectric cryptand-coated quartz crystal liquid chromatographic detector for cations/anions and polar organic molecules in solutions, 392 (1999) 125

## Organic phase

Solvent-resistant carbon electrodes screen printed onto plastic for use in biosensors, 347 (1997) 9 Assessment of glucose oxidase behaviour in alcoholic solutions using disposable electrodes, 368 (1998) 219

## Organic pollutants

Microwave-assisted solvent elution technique for the extraction of organic pollutants in water, 330 (1996) 217

New trends in environmental trace-analysis of organic pollutants: class-selective immunoextraction and clean-up in one step using immunosorbents, 376 (1998) 21

Investigation of organic pollutants from house heating systems using biogenic fuels and correlations with other exhaust gas components, 393 (1999) 131

# Organic priority pollutants

Combined experimental design and information theory for the optimization of supercritical fluid extraction of organic priority pollutants from sediment, 351 (1997) 377

## Organic solvent enhancements

Thermal lens investigation of the temperature dependence of the refractive index of organo-aqueous solutions, 390 (1999)

#### Organic solvents

Enhancement of the fluorescence intensity of Se-2,3-diaminonaphthalene complex in aqueous solution by adding organic solvents, 334 (1996) 161

Effect of organic solvent on tris(2,2'-bipyridyl)ruthenium(III) chemiluminescent reactions in flowing streams, 334 (1996) 183

Organic solvent enhanced spectrofluorimetric method for determination of laccase activity, 374 (1998) 99

Oxygen-sensitive reverse-phase optode membrane using silica geladsorbed ruthenium(II) complex embedded in gelatin film, 387 (1999) 197

## Organic substances

Time-resolved spectroscopy of long-path fluorescence and scattering for measuring total absorption of fluids, 330 (1996) 183

## **Organic Vapors**

Analyzing organic vapors in exhaled breath using a surface acoustic wave sensor array with preconcentration: Selection and characterization of the preconcentrator adsorbent, 371 (1998) 131

# Organic vapour absorption

Monitoring the absorption of organic vapors to a solid phase extraction medium Applications to detection of trace volatile organic compounds by integration of solid phase absorbents with fiber optic Raman spectroscopy, 340 (1997) 227

## Organic vapour detector

Detection of polar organic vapours with piezoelectric crystals coated with crown ethers, 306 (1995) 129

Adsorption study of organic molecules on fullerene with piezoelectric crystal detection system, 374 (1998) 39

## Organic vapour sensor

Preparation and application of cryptand-coated piezoelectric crystal gas-chroinatographic detector, 360 (1998) 61

## Organically modified silicate

Functional-group effects on the ion-exchange properties of organically modified silicates, 397 (1999) 113

## Organically modified silicate films

Organically modified silicate films for stable pH sensors, 394 (1999) 195

# Organized media

Comparing organized media types using fluorescence probe characterization methods, 307 (1995) 419

Determination of flufenamic and mefenamic acids in pharmaceutical preparations using organized media, 367 (1998) 41

## Organoarsenic compounds

Separation of radiolabelled arsenic compounds produced by neutron irradiation of organoarsenic compounds, 380 (1999) 63

## Organochlorine pesticides

Transport of organochlorine pesticides across the air/sea interface during the aerosol process, 317 (1995) 149

#### Organochlorocompounds

Development of a membrane inlet mass spectrometric method for analysis of air samples, 349 (1997) 359

#### Organomercury

Determination of organomercury compounds in aqueous samples by capillary gas chromatography-atomic fluorescence spectrometry following solid-phase extraction, 334 (1996) 251

Comparison of AFS and ICP-MS detection coupled with gas chromatography for the determination of methylmercury in marine samples, 390 (1999) 245

# Organomercury compounds

Determination of organomercury compounds using immobilized peroxidase, 344 (1997) 145

Determination of inorganic and organic mercury compounds by capillary gas chromatography coupled with atomic absorption spectrometry after preconcentration on dithizone-anchored poly(ethylene glycol dimethacrylate-hydroxyethylmethacrylate) microbeads, 371 (1998) 177

## Organometallic labels

Simultaneous homogeneous immunoassay of phenytoin and phenobarbital using a Nafion-loaded carbon paste electrode and two redox cationic labels, 356 (1997) 195

# Organo-metallic species

Determination of metallo-organic species in lubricating oil by electrothermal vaporization inductively coupled plasma mass spectrometry, 320 (1996) 11

## Organometals

Determination of organometallic forms of mercury, tin and lead by in situ derivatization, trapping and gas chromatography – atomic emission detection, 394 (1999) 259

## Organophosphate hydrolase

An enzyme based biosensor for the direct determination of diisopropyl fluorophosphate, 389 (1999) 189

## Organophosphorus

Surface morphology and the response of piezoelectric gas sensors, 315 (1995) 83

# Organophosphorus compounds

Enhanced selectivity in ion mobility spectrometry analysis of complex mixtures by alternate reagent gas chemistry, 306 (1995) 21

Ionization chamber as a gas sensor: organophosphorus compound detection, 331 (1996) 233

Elemental composition determination of organophosphorus compounds using gas chromatography and atomic emission spectrometric detection, 340 (1997) 181

## Organophosphorus neurotoxins

An enzyme based biosensor for the direct determination of diisopropyl fluorophosphate, 389 (1999) 189

# Organophosphorus pesticides

Chemiluminescence assays of organophosphorus and carbamate pesticides, 302 (1995) 53

Flow injection analysis of paraoxon with the use of an immobilized acetylcholinesterase reactor, 324 (1996) 21

Determination of organophosphorus and carbamate pesticides using a biosensor based on a polishable, 7,7,8,8-tetracyanoquinodimethane-modified, graphite-epoxy biocomposite, 337 (1997) 305

Automated sample clean-up procedure for organophosphorus pesticides in several aquatic organisms using normal phase liquid chromatography, 374 (1998) 215

A new organic phase enzyme electrode for the analysis of organophosphorus pesticides and carbamates, 385 (1999) 59

## Organothiols

Factors that influence the stability of self-assembled organothiols on gold under electrochemical conditions, 307 (1995) 253

#### Organotin

Improvement of extraction recovery for the monobutyltin species from sediment, 320 (1996) 165

#### Organotin compounds

A study of the applicability of various ionization methods and tandem mass spectrometry in the analyses of triphenyltin compounds, 340 (1997) 5

Simultaneous determination of tributyltin and triphenyltin cations by capillary isotachophoresis with potential-gradient detector for direct detection, 383 (1999) 205

# Organotin contaminants

Supercritical fluid extraction of priority organotin contaminants from biological matrices, 355 (1997) 269

#### Organotin speciation

Evaluation of sample preparation methods for organotin speciation analysis in sediments - focus on monobutyltin extraction, 317 (1995) 161

#### **Organotins**

Simultaneous analysis of the antifouling agents: tributyltin, triphenyltin and IRGAROL 1051 in marina water samples, 335 (1996)

## Oriental pharmaceuticals

Spectrofluorimetric determination of berberine in oriental pharmaceutical preparations by flow-injection analysis coupled with liquid-liquid extraction, 308 (1995) 329

#### Ormosi

pH optical sensors based on sol-gels: Chemical doping versus covalent immobilization, 367 (1998) 159

#### Ornithine

Development of ornithine biosensor and application to estimation of prawn freshness, 364 (1998) 159

Flow injection chemiluminescence determination of ornithine and sequential determination of ornithine and lysine by using immobilized lysine oxidase, 388 (1999) 339

## Orthogonal array design

Orthogonal array design for the optimization of closed-vessel microwave digestion parameters for the determination of trace metals in sediments, 314 (1995) 121

## Orthogonal regression

Performance of the orthogonal least median squares regression, 348 (1997) 11

# 1,10-Orthophenanthroline

The simultaneous speciation of aluminium and iron in a flowinjection system, 306 (1995) 5

# [Os(bpy)2(PVP)10Cl]Cl

Amperometric determination of epinephrine with an osmium complex and Nafion double-layer membrane modified electrode, 378 (1999) 151

## Oscillating chemical reaction

Determination of gallic acid by an oscillating chemical reaction using the analyte pulse perturbation technique, 321 (1996) 53

Simultaneous determination of gallic acid and resorcinol based on an oscillating chemical reaction by the analyte pulse perturbation technique, 334 (1996) 323

# Oscillating condition

Oscillation condition for a series piezoelectric sensor. Application to the determination of urease activity in plant seeds, 340 (1997) 55

## Osmium

Evaluation of amperometric glucose biosensors based on co-immobilisation of glucose oxidase with an osmium redox polymer in electrochemically generated polyphenol films, 304 (1995) 127

Separation of osmium from geological materials by solvent extraction for analysis by thermal ionisation mass spectrometry, 332 (1996) 269

Rapid simultaneous determination of ruthenium and osmium in aqueous solutions of their tetroxides by second-order derivative spectrophotometry, 349 (1997) 53

# Osmium complex

Utilization of an osmium complex as a sequence recognizing material for DNA-immobilized electrochemical sensor, 345 (1997) 45

Preparation and properties of enzyme sensors for L-lactic and Dlactic acids in optical isomers, 368 (1998) 91

## Osmium polymer

Development of an "electrically wired" amperometric immunosensor for the determination of biotin based on a non-diffusional redox osmium polymer film containing an antibody to the enzyme label horseradish peroxidase, 345 (1997) 59

## Osmium redox polymer

[Os(bpy)<sub>2</sub>(PVI)<sub>10</sub>Cl]Cl polymer-modified carbon fiber electrodes for the electrocatalytic oxidation of NADH, 345 (1997) 51

## Osmolality

Recovery as a function of the osmolality of the perfusion medium in microdialysis experiments, 375 (1998) 135

Recovery as a function of the osmolality of the perfusion medium in microdialysis experiments, 379 (1999) 319

## Ostacetate Blue P3R

Polarographic and voltammetric determination of Ostacetate Blue P3R, 356 (1997) 231

#### OSWSV

Square-wave adsorptive stripping voltammetry at glassy carbon electrode for selective determination of manganese. Application to some industrial samples, 370 (1998) 239

#### OTCEC

Open tubular capillary electrochromatography with adsorbed stationary phase, 378 (1999) 73

## **Outlier detection**

Robust orthogonal regression for the outlier detection when comparing two series of measurement results, 344 (1997) 17

#### Outliers

Detection of prediction outliers and inliers in multivariate calibration, 388 (1999) 283

#### Overfitting

Multivariate nonlinear modelling of fluorescence data by neural network with hidden node pruning algorithm, 344 (1997) 29

A numerical procedure for curve fitting of noisy infrared spectra, 376 (1998) 169

## Overlap coefficient

Effect of chemical diffusivity on the peak shapes in flow injection analysis with sample or reagent injection, 310 (1995) 329

# Overlapped fraction

Evaluation of several global resolution functions for liquid chromatography, 396 (1999) 61

## Overlapping signals

Qualitative and quantitative aspects of the application of genetic algorithm-based variable selection in polarography and stripping voltammetry, 378 (1999) 245

#### Overview

Miniaturisation: a well-defined trend in separation and preconcentration techniques, 351 (1997) 23

Towards the most rational use of robotics within the overall analytical process, 384 (1999) 117

## Oxacyanine dyes

Determination of oxacyanine dyes and rhodamine by a second harmonic generation technique using a femtosecond laser, 330 (1996) 117

## Oxalic acid

Column solid phase extraction as preconcentration method for trace element determination in oxalic acid by atomic absorption spectrometry and inductively coupled plasma atomic emission spectrometry, 307 (1995) 71

Catalytic spectrophotometric methods for the determination of oxalic acid, 320 (1996) 139

# Oxalyldiimidazole

Peroxyoxalate chemiluminescence in aqueous solutions: Coupling of immobilized enzyme reactors and 1,1'-oxalyldiimidazole chemiluminescence reaction to flow-injection analysis and liquid chromatographic systems, 357 (1997) 111

## 1,2-Oxaphosphol-4-en

Quantitative structure-electrochemistry relationships of  $\alpha.\beta$ -unsaturated ketones, 305 (1995) 295

## Oxic sediments

Metal readsorption and redistribution during the analytical fractionation of trace elements in oxic estuarine sediments, 399 (1999) 295

#### Oxidases

Peroxyoxalate chemiluminescence in aqueous solutions: Coupling of immobilized enzyme reactors and 1,1'-oxalyldiimidazole chemiluminescence reaction to flow-injection analysis and liquid chromatographic systems, 357 (1997) 111

#### **β-Oxidation**

Separation of stereoisomers of C<sub>27</sub>-bile acid CoA esters by liquid chromatography and its application to the study of the stereospecificities of D- and L-bifunctional proteins in bile acid biosynthesis, 365 (1998) 249

#### Oxidation

Kinetic study of methionine oxidation in human parathyroid hormone, 365 (1998) 301

# Oxide formation

Determination of the aqua regia soluble content of rare earth elements in fertilizer, animal fodder phosphate and manure samples using inductively coupled plasma mass spectrometry, 373 (1998) 95

## Oxide-covered aluminium

Hot electron-induced time-resolved electrogenerated luminescence of Tb(III) ions at stationary oxide-covered aluminium electrodes, 359 (1998) 71

#### Oximes

Workplace monitoring of oximes using 2,4-dinitrophenylhydrazinecoated silica gel cartridges and liquid chromatography, 388 (1999) 181

## Oxinate

Adsorptive pulse polarographic determination of uranium(VI) oxinate in chloroform and its use for the analysis of uranium mineral ores, 328 (1996) 33

#### Oxine

The simultaneous speciation of aluminium and iron in a flowinjection system, 306 (1995) 5

Flow injection spectrophotometric determination of paracetamol in pharmaceuticals by means of on-line microwave-assisted hydrolysis and reaction with 8-hydroxyquinoline (8-quinolinol), 330 (1996) 59

#### Oxoanions

Trace enrichment and ion chromatographic determination of metal oxoanions in environmental water samples, 309 (1995) 173

## Oxo-peroxovanadate(V)

Spectrophotometric determination of hydrogen peroxide in rainwater, 370 (1998) 279

#### Oxygen-18

Determination of the oxygen-18 and deuterium content of fruit and vegetable juice water An European inter-laboratory comparison study, 302 (1995) 29

## Oxygen

Effect of oxygen addition to an argon glow-discharge plasma source in atomic emission spectrometry, 306 (1995) 193

Entrapment of chloroplasts and thylakoids in polyvinylalcohol-SbQ.

Optimization of membrane preparation and storage conditions,
311 (1995) 437

Determination of oxygen stoichiometry in YBCO superconductors by spectrophotometry, 312 (1995) 223

Improved iodometric method for simultaneous determination of non-stoichiometric oxygen and total copper content in YBCO superconductors, 312 (1995) 227

Effects of gas flow-rates on a Clark-type oxygen gas sensor, 313 (1995) 89

Rapid determination of copper, lead and cadmium in unpurged seawater by adsorptive stripping voltammetry, 320 (1996) 19

Towards a microelectrode sensor for the determination of oxygen in waters, 322 (1996) 83

Stability of preplated mercury coated platinum and carbon fibre microelectrodes, 327 (1996) 211

Rapid and simple spectrophotometric determination of oxygen stoichiometry in YBCO superconducting materials, 336 (1996) 223

Determination of gaseous species by monosegmented flow systems. Volumetric determination of oxygen and carbon dioxide, 349 (1997) 377

Determination of non-stoichiometric oxygen in YBCO superconductors by coulometric titration, 353 (1997) 325

Sol-gel immobilized room-temperature phosphorescent metal-chelate as luminescent oxygen sensing material, 360 (1998) 17

Quantitative millimetre wavelength spectrometry. Part IV. Response curves for oxygen in carbon dioxide and nitrogen at 60 GHz, 367 (1998) 245

Oxygen detection by fluorescence quenching of tetraphenylporphyrin immobilized in the original cladding of an optical fiber, 370 (1998) 1

Bisegmented flow system for determination of low concentrations of gaseous constituents in gaseous samples, 393 (1999) 121

## Oxygen-18 analysis

On-line determination of  $\delta^{18}$ O values of organic substances, 319 (1996) 159

## Oxygen bomb combustion

Oxygen bomb combustion ion chromatography for elemental analysis of heteroatoms in fuel and wastes development, 315 (1995) 347

Elemental analysis of chemical wastes by oxygen bomb combustion-ion chromatography, 334 (1996) 51

#### Oxygen consumption

A novel microbial sensor for the determination of cyanide, 313 (1995) 69

#### Oxygen electrode

Biosensor for L-lactate determination as an index of E. coli number in crude culture medium, 361 (1998) 45

# Oxygen electrode arrays

Fabrication of oxygen electrode arrays and their incorporation into sensors for measuring biochemical oxygen demand, 357 (1997) 41

# Oxygen-18 exchange

Reactions of temazepam in acidic aqueous solution via oxygen-18labeled product analysis by mass spectrometry, 309 (1995) 307

## Oxygen optode

Determination of choline-containing phospholipids in serum with a fiber-optic biosensor, 374 (1998) 19

## Oxygen plasma treatment

Disposable creatinine sensor based on thick-film hydrogen peroxide electrode system, 394 (1999) 225

# Oxygen reduction

Solid-state microelectrode oxygen sensors, 388 (1999) 51

# Oxygen removal

Voltammetry of compounds confined at the hanging mercury drop electrode surface, 385 (1999) 315

## Oxygen response

Selective optical response to oxygen of membranes based on immobilized cobalt(II) porphyrins, 338 (1997) 119

## Oxygen sensors

Multivariate experimental methodology applied to the calibration of a Clark type oxygen sensor, 355 (1997) 43 Linear calibration function for optical oxygen sensors based on quenching of ruthenium fluorescence, 368 (1998) 83

## Oxygen tripod ligand

Extraction of alkali metal, magnesium and calcium ions with cyclopentadienyltris(diethylphosphito-P) cobaltate(-1), 319 (1996) 271

## Oxygenate

Qualitative and quantitative determination of oxygenates in gasolines using <sup>1</sup>H nuclear magnetic resonance spectroscopy, 391 (1999) 277

## Oxyhalogens

Speciation of halogenides and oxyhalogens by ion chromatographyinductively coupled plasma mass spectrometry, 360 (1998) 161

#### Oxymetallic films

Electrocatalytic oxidation of H<sub>2</sub>O<sub>2</sub> at an oxycobalt film modified glassy carbon electrode for fermentation monitoring, 351 (1997) 133

## Oxytetracycline

Time-resolved fluorescence studies of the interaction of the Eu<sup>3+</sup> complexes of tetracycline analogues with DNA, 345 (1997) 213

#### Ozone

Ozone chemiluminescence in environmental analysis, 303 (1995) 127

Detection of effects of ozone on birch, Betula pendula Roth., by chemometrical evaluation of concentrations of lipid components in leaves, 304 (1995) 209

Sensitive measurement of ozone using amperometric gas sensors, 313 (1995) 209

Fluorimetric investigation of reactions between ozone and excited state aromatic compounds on silica gel, 319 (1996) 369

A simple, highly stable scintillator light source for ultraviolet absorption-based sensors, 367 (1998) 153

Application of gallic acid and xanthene dyes for determination of ozone in air with a chemiluminescence aerosol detector, 374 (1998) 297

Spectrophotometric determination of ozone in ozonized air currents with chemical gas-liquid transfer using a microreactor, 380 (1999) 93

Development of highly sensitive BOD sensor and its evaluation using preozonation, 394 (1999) 65

# Ozone interference

An artifact in air carbonyls sampling using C<sub>18</sub> DNPH-coated cartridge, 367 (1998) 223

# Ozonized water

High selective determination of bromate in ozonized water by using ion chromatography with postcolumn derivatization equipped with reagent preparation device, 346 (1997) 299

# P

## p53 gene

Detection of point mutation in the p53 gene using a peptide nucleic acid biosensor, 344 (1997) 111

## p-(Hydroxyphenyl)propionic acid as fluorescence substrate

Fluorometric determination of microamounts of hydrogen peroxide with an immobilized enzyme prepared by coupling horseradish peroxidase to chitosan beads, 374 (1998) 191

# P. fluorescens NCIMB11764

A novel microbial sensor for the determination of cyanide, 313 (1995) 69

#### P. putida

Biosensor for the estimation of low biochemical oxygen demand, 379 (1999) 185

Development of highly sensitive BOD sensor and its evaluation using preozonation, 394 (1999) 65

## Packed capillary column

A microelectrochemical detector for use at low linear velocities in capillary column systems, 344 (1997) 77

## Packed column

Simultaneous estimation of nalidixic acid and metronidazole in dosage forms using packed column supercritical fluid chromatography, 376 (1998) 221

Metallomesogens as stationary phases for the separation of phenols by gas chromatography, 384 (1999) 51

## Packed column supercritical fluid chromatography

Separation and estimation of diloxanide furoate and metronidazole in solid dosage form using packed column supercritical fluid chromatography, 354 (1997) 123

## Packed flow cell

Signal enhancement of dansyl amino acids by fluorimetric detection with a packed flow cell in microcolumn liquid chromatography, 311 (1995) 231

# Packed-capillary columns

Electron-capture detection in reversed-phase liquid chromatography using packed-capillary columns, 304 (1995) 47

#### Paclitavel

Liquid chromatographic determination of taxol and related derivatives using a new polyfluorinated reversed-phase column, 319 (1996) 187

## PADMAP

Use of 4-(2-pyridylazo)resocinol or 2-(2-pyridylazo)-5-dimethylaminophenol as chelating agent for determination of cadmium in seawater by atomic absorption spectrometry with on-line flowinjection sorbent extraction, 376 (1998) 305

## PAGE

Electrophoretic methods for the isolation and characterization of enzymes, 383 (1999) 109

## **PAH** metabolites

Immunochemical test to monitor human exposure to polycyclic aromatic hydrocarbons: urine as sample source, 399 (1999) 115

#### PAHs

- Study on total luminescence spectra. Application of the Monte-Carlo method to three-dimensional synchronous fluorescence spectrometry, 306 (1995) 307
- Applicability of low temperature high-resolution fluorescence spectroscopy to the analysis of nitro and amino polycyclic aromatic hydrocarbons, 312 (1995) 165
- Multivariate statistical analysis characterization of applicationbased ion mobility spectra, 316 (1995) 1
- Application of variable-angle synchronous phosphorimetry in a microemulsion medium for the simultaneous determination of three polyaromatic hydrocarbons, 329 (1996) 165
- Use of cloud point extraction methodology for the determination of PAHs priority pollutants in water samples by high-performance liquid chromatography with fluorescence detection and wavelength programming, 330 (1996) 199
- Effects of analyte-matrix interactions on supercritical fluid extraction efficiencies of polycyclic aromatic hydrocarbons, 342 (1997) 41
- Supercritical fluid extraction combined on-line with cold-trap gas chromatography/mass spectrometry, 346 (1997) 81
- Mathematical procedure for the determination of the breakthrough volumes of polycyclic aromatic hydrocarbons (PAHs), 346 (1997) 253
- Simultaneous microemulsion room temperature phosphorimetric determination of five polycyclic aromatic hydrocarbons by variable-angle synchronous scanning, 353 (1997) 337
- Water solubility enhancement of pyrene in the presence of humic substances, by S. Tanaka et al.: comments, 355 (1997) 101
- A strategy to validate immunoassay test kits for TNT and PAHs as a field screening method for contaminated sites in Germany, 376 (1998) 3
- New trends in environmental trace-analysis of organic pollutants: class-selective immunoextraction and clean-up in one step using immunosorbents, 376 (1998) 21
- Determination of PAHs in river water samples by ELISA, 376 (1998) 49
- Comparison of different drying, extraction and detection techniques for the determination of priority polycyclic aromatic hydrocarbons in background contaminated soil samples, 383 (1999) 263
- Artificial neural networks (ANNs) in the analysis of polycyclic aromatic hydrocarbons in water samples by synchronous fluorescence, 384 (1999) 261
- Determination of polycyclic aromatic hydrocarbons by spectrofluorimetry, 388 (1999) 27
- Determination of polynuclear aromatic hydrocarbons in human blood serum by proteolytic digestion — direct immersion SPME, 396 (1999) 303
- Spectrochemical investigations in dendritic media: evaluation of nitromethane as a selective fluorescence quenching agent in aqueous carboxylate-terminated polyamido amine (PAMAM) dendrimers, 397 (1999) 17

A modified enzyme-linked immunosorbent assay (ELISA) for polyaromatic hydrocarbons, 399 (1999) 127

## **Paints**

Quality control of paints: Pyrolysis-mass spectrometry and chemometrics, 336 (1996) 201

#### Palladium

- Flow-injection spectrophotometric determination of carbimazole and methimazole, 308 (1995) 457
- Determination of lead in illicit drugs by electrothermal atomic absorption spectrometry using palladium as chemical modifier, 310 (1995) 355
- Determination of trace amounts of selenium and tellurium in nickelbased heat-resisting superalloys, steels and several metals by electrothermal atomic absorption spectrometry after reductive coprecipitation with palladium using ascorbic acid, 312 (1995) 157
- Determination of small amounts of palladium in wastes from reworking of spent catalysts by microwave induced plasma atomic emission spectrometry, 317 (1995) 365
- Simultaneous determination of chloride complexes of Pt(IV) and Pd(II) by capillary zone electrophoresis with direct UV absorbance detection, 319 (1996) 191
- Selective determination of palladium by on-line column preconcentration and graphite furnace atomic absorption spectrometry, 328 (1996) 1
- Simultaneous cathodic stripping voltammetric determination of mercury, cobalt, nickel and palladium by mixed binder carbon paste electrode containing dimethylglyoxime, 333 (1996) 119
- Preconcentration and separation of palladium(II) and platinum(IV) on a dithizone anchored poly(vinylpyridine)-based chelating resin, 341 (1997) 217
- Selective extraction of silver(I) over palladium(II) with ketonic derivatives of calixarenes from highly concentrated nitric acid, 341 (1997) 275
- Analytical problems in the determination of platinum-group metals in urine by quadrupole and magnetic sector field inductively coupled plasma mass spectrometry, 363 (1998) 1

## Palladium modifier

Investigation of thallium hydride generation using in situ trapping in graphite tube by atomic absorption spectrometry, 360 (1998) 209

## Palladium(II)

Room temperature phosphorescence of palladium(II)-coproporphyrin III complex in a precipitated nonionic surfactant micelle phase: determination of traces of palladium(II), 320 (1996) 133

# Palladium(II) complex

Acid-catalyzed interfacial complexation in the extraction kinetics of palladium(II) with 2-(5-bromo-2-pyridylazo)-5-diethylamino-phenol, 364 (1998) 53

# Palladium(II)-2-(5-bromo-2-pyridylazo)-5-diethylaminophenol complex

Isomer recognizing adsorption of palladium(II)-2-(5-bromo-2-pyridylazo)-5-diethylaminophenol with diazine derivatives at the toluene-water interface, 394 (1999) 23

# Palladium-substituted-heteropolytungstate

Electrocatalytic reduction of nitrite at a glassy carbon electrode surface modified with palladium(II)-substituted Keggin type heteropolytungstate, 388 (1999) 103

#### Palmes tube

Determination of experimental diffusion coefficients of acetic acid and formic acid vapours in air using a passive sampler, 341 (1997) 1

A diffusion tube sampler for the determination of acetic acid and formic acid vapours in museum cabinets, 341 (1997) 11

#### p-Aminobenzenearsonate

Determination of arsenic species by field amplified injection capillary electrophoresis after modification of the sample solution with methanol, 389 (1999) 9

## p-Aminobenzoic acid

Derivative linear variable-angle scanning fluorescence spectrometry for the determination of closely overlapping drug mixtures, 319 (1996) 361

Determination of *p*-aminobenzoic acid in the presence of bovine serum albumin by room-temperature phosphorimetry on a poly(vinyl alcohol) substrate, 367 (1998) 33

# p-Aminophenyl-β-d-galactopyranoside

Immunosensing with amperometric detection, using galactosidase as label and p-aminophenyl-β-d-galactopyranoside as substrate, 304 (1995) 353

#### PAN

Spectrophotometric study of the solubility and the protolytic properties of 1-(2-pyridylazo)-2-naphthol in different ethanol-water solutions, 360 (1998) 153

Adsorbed resin phase spectrophotometric determination of nickel, 363 (1998) 295

Determination of the diffusion coefficient of 1-(2'-pyridylazo)-2naphthol in ethanol-water solutions using flow injection and nuclear magnetic resonance techniques, 386 (1999) 137

#### p-Anisidine

Flow-injection/standard subtraction method for the determination of iron(III) based on its catalytic effect and inhibition of EDTA, 374 (1998) 303

#### Papaver alkaloids

Determination of codeine in process streams using flow-injection analysis with chemiluminescence detection, 318 (1996) 309

## Paper coatings

Quantitative determination of polymer and mineral content in paper coatings by infrared spectroscopy. Improvements by non-linear treatments, 335 (1996) 79

## Paper electrophoresis

Studies of platinum(II) compounds in aqueous solution. Part 1.  $K_2PtCl_4$ , 350 (1997) 203

## Paper industry

Use of analytical pyrolysis for the characterization of paper industry effluents, 335 (1996) 245

## Paper industry effluent

Pyrolysis-gas chromatography-mass spectrometry characterization of wheat straw alkaline-cooking effluents after biological treatment with the fungi Phanerochaete chrysosporium and Ganoderma australe, 309 (1995) 145

#### Paper machine

Spectrophotometric determination of calcium in paper machine white water by sequential injection analysis, 308 (1995) 286

#### PAPhA resin

Determination of trace metals in natural waters by flame atomic absorption spectrometry following on-line ion-exchange preconcentration, 303 (1995) 341

#### PAR

Use of 4-(2-pyridylazo)resocinol or 2-(2-pyridylazo)-5-dimethylaminophenol as chelating agent for determination of cadmium in seawater by atomic absorption spectrometry with on-line flowinjection sorbent extraction, 376 (1998) 305

Selective and sensitive spectrophotometric determination of total vanadium with hydrogen peroxide and 4-(2-pyridylazo)-resorcinol, 389 (1999) 275

#### PAR sensor

Characterisation of optical detectors using high-accuracy instruments, 380 (1999) 327

#### Paraben

Determination of parabens in cosmetic products by supercritical fluid extraction and capillary zone electrophoresis, 377 (1998) 85

## Paracetamol

Flow injection spectrophotometric determination of paracetamol in pharmaceuticals by means of on-line microwave-assisted hydrolysis and reaction with 8-hydroxyquinoline (8-quinolinol), 330 (1996) 59

Study of various indicating redox systems on the indirect flowinjection biamperometric determination of pharmaceuticals, 396 (1999) 161

# Paracetamol determination

Flow-injection stopped-flow spectrofluorimetric kinetic determination of paracetamol based on its oxidation reaction by hexacyanoferrate(III), 333 (1996) 59

#### PARAFAC

Multivariate calibration of polycyclic aromatic hydrocarbon mixtures from excitation–emission fluorescence spectra, 373 (1998) 311

Rapid estimation of rate constants using on-line SW-NIR and trilinear models, 376 (1998) 339

Excitation-emission matrix fluorescence based determination of carbamate pesticides and polycyclic aromatic hydrocarbons, 397 (1999) 61

## Parallel detection

NMR analysis of multiple samples using parallel coils: improved performance using reference deconvolution and multidimensional methods, 400 (1999) 297

## Parallel-plate dialysers

Study of mass transfer in on-line analytical parallel-plate dialysers in series in flow injection systems, 308 (1995) 222

#### Paraoxon

Evaluation of the use of free and immobilised acetylcholinesterase for paraoxon detection with an amperometric choline oxidase based biosensor, 311 (1995) 273

Flow injection analysis of paraoxon with the use of an immobilized acetylcholinesterase reactor, 324 (1996) 21

Immobilization of enzyme on screen-printed electrode by exposure to glutaraldehyde vapour for the construction of amperometric acetylcholinesterase electrodes, 382 (1999) 277

#### Paraquat

Paraquat sensors containing membrane components of high lipophilicities, 338 (1997) 89

#### Parasitic resistance

Parasitic resistance as a source of error in voltammetric measurements, 319 (1996) 31

#### Parathian

A sensitive voltammetric method for the determination of parathion insecticide, 396 (1999) 39

#### PARATUCK2

Calibration methods for complex second-order data, 398 (1999)

#### Paraxanthine

Extraction of methylxanthines from human body fluids by solidphase microextraction, 387 (1999) 53

#### Pareto optimality

Study of different criteria for the selection of a rugged optimum in high performance liquid chromatography optimisation, 348 (1997) 223

## Parotid saliva

Electrophoretic characterisation of the major cat parotid salivary protein, 372 (1998) 249

## Partial cross correlation approach

Joined knowledge- and signal processing for infrared spectrum interpretation, 393 (1999) 193

# Partial dissolution of gallium

Determination of trace impurities in high purity gallium by inductively coupled plasma mass spectrometry and cross validation of results by transverse heated graphite furnace atomic absorption spectrometry, 371 (1998) 305

## Partial least squares

The simultaneous speciation of aluminium and iron in a flowinjection system, 306 (1995) 5

Selection of calibration mixtures and wavelengths for different multivariate calibration methods, 313 (1995) 93

Simultaneous determination of sulfadiazine, doxycycline, furaltadone and trimethoprim by partial least squares multivariate calibration, 313 (1995) 103 Multivariate calibrations in Fourier transform infrared spectrometry for prediction of kerosene properties, 317 (1995) 95

Determination of active components in insecticide formulations by liquid chromatography and resolution of overlapped peaks by multivariate analysis and derivative spectrophotometry, 321 (1996) 273

Prediction of physical properties of fabrics using DRIFT spectroscopy and thermal analysis, 332 (1996) 105

Quantitative determination of polymer and mineral content in paper coatings by infrared spectroscopy. Improvements by non-linear treatments, 335 (1996) 79

Genetic-algorithm-based wavelength selection in multicomponent spectrometric determinations by PLS: application on indomethacin and acemethacin mixture, 339 (1997) 63

Simultaneous spectrophotometric determination of ethinylestradiol and levonorgestrel by partial least squares and principal component regression multivariate calibration, 340 (1997) 257

PLS-NIR determination of total sugar, glucose, fructose and sucrose in aqueous solutions of fruit juices, 344 (1997) 41

Multivariate calibration transfer applied to the routine polarographic determination of copper, lead, cadmium and zinc, 348 (1997) 51

Linear and non-linear multivariate analysis in the quality control of industrial titanium dioxide white pigment, 348 (1997) 87

Linear and non-linear modelling techniques for the investigation of spectrum-structure relationships, 348 (1997) 471

Quantitative multicomponent analysis of polycyclic aromatic hydrocarbons in water samples, 361 (1998) 233

Variable selection in wavelet regression models, 368 (1998) 29

Multivariate calibration of polycyclic aromatic hydrocarbon mixtures from excitation-emission fluorescence spectra, 373 (1998) 311

Partial least-squares method in analysis by differential pulse polarography. Simultaneous determination of amiloride and hydrochlorothiazide in pharmaceutical preparations, 381 (1999) 247

Two-way, unfolded three-way and three-mode partial least squares calibration of diode array HPLC chromatograms for the quantitation of low-level pharmaceutical impurities, 384 (1999) 71

Determination of theophylline in blood serum by UV spectrophotometry and partial least-squares (PLS-1) calibration, 384 (1999) 95

Artificial neural networks (ANNs) in the analysis of polycyclic aromatic hydrocarbons in water samples by synchronous fluorescence, 384 (1999) 261

Evaluation of nonlinear model building strategies for the determination of glucose in biological matrices by near-infrared spectroscopy, 384 (1999) 333

A novel peak-hopping stepwise feature selection method with application to Raman spectroscopy, 388 (1999) 251

Simultaneous determination of halide and thiocyanate ions by potentiometric precipitation titration and multivariate calibration, 390 (1999) 117

Spectrophotometric resolution of ternary mixtures of Tartrazine, Patent Blue V and Indigo Carmine in commercial products, 391 (1999) 353

## Partial least squares multivariate calibration

Multicomponent flow injection based analysis with diode array detection and partial least squares multivariate calibration evaluation. Rapid determination of Ca(II) and Mg(II) in waters and dialysis liquids, 320 (1996) 177

## Partial least squares regression

Partial least-squares regression for multicomponent kinetic determinations in linear and non-linear systems, 303 (1995) 309

Determination of triazines in surface waters by membrane separation coupled on-line to a flow-injection system and partial least squares regression, 321 (1996) 147

Quantitative Fourier transform infrared spectroscopy of binary mixtures of fatty acid esters using partial least squares regression, 337 (1997) 191

Calibration methods for determination of ammonium and excess acid in Kjeldahl digests by flow injection analysis, 343 (1997) 183

Use of pH gradients in continuous-flow systems and multivariate regression techniques applied to the determination of methionine and cysteine in pharmaceuticals, 348 (1997) 151

Determination of accelerators and antioxidants in vulcanized rubber by fourier transform infrared spectrophotometry, 353 (1997) 351

Simultaneous determination of orthophosphate and arsenate based on multi-way spectroscopic-kinetic data evaluation, 354 (1997) 241

Development of a method for the systematic use of bilinear multivariate calibration methods for the correction of interferences in inductively coupled plasma-mass spectrometry, 358 (1998) 205

Comparison of various peak evaluation techniques for limited and extended dynamic ranges in flow injection systems, 364 (1998)

Assessment of a screening method for metals in seawater based on the non-selective reagent 4-(2-pyridylazo)resorcinol (PAR), 371 (1998) 227

Simultaneous determination of orthophosphate and silicate in brackish water, 378 (1999) 183

Qualitative and quantitative aspects of the application of genetic algorithm-based variable selection in polarography and stripping voltammetry, 378 (1999) 245

Determination of paracetamol in intact tablets by use of near infrared transmittance spectroscopy, 383 (1999) 283

Novel application and comparison of multivariate calibration for the simultaneous determination of Cu, Zn and Mn at trace levels using flow injection diode array spectrophotometry, 398 (1999) 93

## Partial least-squares method

Resolution of phenol, o-cresol, m-cresol and p-cresol mixtures by excitation fluorescence using partial least-squares (PLS) multivariate calibration, 335 (1996) 23

#### Partial specific volumes

Experimental determination of partial specific volumes of humic substances in aqueous solutions, 314 (1995) 149

The effects of solution conditions on partial specific volumes of humic substances, 362 (1998) 299

# Partially aqueous pH titrations

Ionization constants of water insoluble arylpropionic acids in aqueous N,N-dimethylformamide mixtures from potentiometric pH-titrations, 356 (1997) 253

## Particle classification

Classification of single particles by neural networks based on the computer-controlled scanning electron microscopy data, 348 (1997) 375

## Particle collection

Automated particle collection and analysis. Near-real time measurement of aerosol cerium (III), 361 (1998) 151

#### Particles

Determination of non-ionic surfactants adsorbed on particles of surface water by an indirect tensammetric method combined with the BiAS separation scheme, 331 (1996) 131

## Particulate matter

Application of binaphthyl-based amphiphiles Determination of benzo[a]pyrene by fluorescence energy transfer, 306 (1995) 323

Field air analysis with SPME device, 400 (1999) 153

## Partition coefficients

Second derivative spectrophotometric determination of partition coefficients of chlorpromazine and promazine between lecithin bilayer vesicles and water, 304 (1995) 101

Mathematical model for the migration of plasticisers from food contact materials into solid food, 347 (1997) 249

## Partitioning behaviour

Description of the partitioning behaviour of solutes and data treatment in micellar liquid chromatography with modifiers, 324 (1996) 163

# Passive monitor

Passive monitoring of trace metals in water by in situ sample preconcentration via chelation on a textile based solid sorbent, 341 (1997) 229

## Passive sampling

Determination of experimental diffusion coefficients of acetic acid and formic acid vapours in air using a passive sampler, 341 (1997) 1

A diffusion tube sampler for the determination of acetic acid and formic acid vapours in museum cabinets, 341 (1997) 11

# Passive sampling technique

Development of a passive sampling technique for the determination of nitrogen dioxide and sulphur dioxide in ambient air, 346 (1997) 127

## Pasteurization

Assessment of heat treatment for nutrient preservation in seawater samples, 351 (1997) 299

# Pasting liquids

Biosensors for analysis of ethanol in food: effect of the pasting liquid, 319 (1996) 91

#### Patent Blue V

Spectrophotometric resolution of ternary mixtures of Tartrazine, Patent Blue V and Indigo Carmine in commercial products, 391 (1999) 353

## Pathogens

DNA electrochemical biosensors for environmental monitoring. A review, 347 (1997) 1

# Pattern recognition

A study of Roman pottery (terra sigillata) using hierarchical fuzzy clustering, 310 (1995) 269

Simple encoding of infrared spectra for pattern recognition Part 2. Neural network approach using back-propagation and associative Hopfield memory, 316 (1995) 145

Application of pattern recognition to the discrimination of roasted coffees, 320 (1996) 191

Comparison of regularized discriminant analysis, linear discriminant analysis and quadratic discriminant analysis, applied to NIR data, 329 (1996) 257

Feature reduction by Fourier transform in pattern recognition of NIR data, 331 (1996) 75

Application of Radial Basis Functions - Partial Least Squares to nonlinear pattern recognition problems: diagnosis of process faults, 331 (1996) 187

Classification of binding sites for Al(III) in fulvic acids extracted from leaf litters and soils by synchronous fluorescence spectroscopy and multidimensional chemometric analysis, 333 (1996) 71

Kohonen neural network as a pattern recognition method based on the weight interpretation, 334 (1996) 57

Independent neural network modeling of class analogy for classification pattern recognition and optimization, 342 (1997) 223

Linear data projection using a feedforward neural network, 348 (1997) 495

Regularised nearest neighbour classification method for pattern recognition of near infrared spectra, 349 (1997) 253

Characterization of green coffee varieties according to their metal content, 358 (1998) 177

Authentication of green coffee varieties according to their sterolic profile, 370 (1998) 131

The robust normal variate transform for pattern recognition with near-infrared data, 382 (1999) 87

A comparison study of chemical sensor array pattern recognition algorithms, 384 (1999) 305

Chemical sensor array for multicomponent analysis of biological liquids, 385 (1999) 131

A new method based on counterpropagation network algorithm for chemical pattern recognition, 388 (1999) 161

Chemically diverse modified electrodes: A new approach to the design and implementation of sensor arrays, 397 (1999) 135

#### Pb

SI-traceable values for cadmium and lead concentration in the candidate reference material, MURST-ISS AI Antarctic sediment, by combination of ICP-MS with isotope dilution, 346 (1997) 17 Assessment of a screening method for metals in seawater based on the non-selective reagent 4-(2-pyridylazo)resorcinol (PAR), 371 (1998) 227

Determination of Ge, As, Se, Cd and Pb in plant materials by slurry sampling-electrothermal vaporization-inductively coupled plasma-mass spectrometry, 372 (1998) 365

#### Pb(II)

Influence of Triton X-100 in stripping potentiometry, 333 (1996) 233

## Pb(II) complexes

Metal ion interferences in reverse polarity capillary zone electrophoretic analysis of Hanford Defense Waste for ethylenediaminetetraacetic acid (EDTA) and n-hydroxyethylethylenediaminetriacetic acid (HEDTA), 396 (1999) 105

# Pb2+ analysis

Flow injection potentiometry by poly(vinyl chloride)-membrane electrodes with substituted azacrown ionophores for the determination of lead(II) and mercury(II) ions, 372 (1998) 387

#### **PBN**

Application of electrochemical and spin trapping techniques in the investigation of hydroxyl radicals, 389 (1999) 213

#### PCA

Investigation of sources of variance which contribute to NIR-spectroscopic measurement of pharmaceutical formulations, 345 (1997) 185

Data correlation, number of significant principal components and shape of molecules. The K correlation index, 348 (1997) 419

Determination of acid value, hydroxyl value and water content in reactions between dicarboxylic acids and diols using near-infrared spectroscopy and non-linear partial least squares regression, 349 (1997) 287

Selection of variables for interpreting multivariate gas sensor data, 381 (1999) 221

Multivariate data analysis of key pollutants in sewage samples: a case study, 393 (1999) 181

#### PCA and CEN

Multi- and univariate interpretation of the interlaboratory validation of PrEN 12673; GC determination of chlorophenols in water, 388 (1999) 119

#### PCBs

Application of radioimmunoassay in the screening of polychlorinated biphenyls in cow's milk, 311 (1995) 415

Enzyme-immunoassays for polychlorinated biphenyls: structural aspects of hapten-antibody binding, 347 (1997) 163

Analysis of soil and dust samples for polychlorinated biphenyls by enzyme-linked immunosorbent assay (ELISA), 376 (1998) 67

Selective extraction of polychlorinated biphenyls from dairy products using steam distillation-solvent extraction at normal pressure, 376 (1998) 313

#### pCO<sub>2</sub>

A new automated underway system for making high precision pCO<sub>2</sub> measurements onboard research ships, 377 (1998) 185

#### p-Coumaric acid

Study of the enhanced chemiluminescence from the luminol-horseradish peroxidase-hydrogen peroxide-p-coumaric acid system at very short times: stopped flow selective determination of pcoumaric acid in beers, 310 (1995) 399

## PCR

Improved variable selection procedure for multivariate linear regression, 354 (1997) 225

Quantitative analysis by the polymerase chain reaction using fluorescence correlation spectroscopy, 365 (1998) 43

Application and comparisons of chemometric techniques for calibration modelling using electrochemical/ICP-MS data for trace elements in UHQ water and humic acid matrices, 378 (1999) 235

# Pd/IrO2/Nafion/PVP Microsensor

Iridium oxide and palladium modified nitric oxide microsensor, 381 (1999) 191

#### p-Diphenylaminoazobenzene sulfonate

Flow injection determination of anionic surfactants based on the solvatochromism of p-diphenylaminoazobenzene sulfonate, 343 (1997) 33

## Peak area

The mutual relationships between applied voltage, migration time and peak area in capillary zone electrophoresis, 342 (1997) 59

#### Peak information

The development of the significant peak selection method using the mutual information and its completeness, 351 (1997) 387

## Peak integration

A computational study on the effect of random noise on the precision and accuracy of the integration of chromatographic peaks, 388 (1999) 187

## Peak purity

Parallel Kalman filters for peak purity analysis: extensions to nonideal detector response, 307 (1995) 459

Eigenstructure tracking analysis for assessment of peak purity in high-performance liquid chromatography with diode array detection, 314 (1995) 131

Assessment of peak purity in liquid chromatography using condition index and singular value evolving profiles, 317 (1995) 17

#### Peak purity analysis

Identification and quantification of overlapped peaks in liquid chromatography with UV diode array detection using an adaptive Kalman filter, 335 (1996) 1

## Peat forming plants

Using multivariate methods on solid-state <sup>13</sup>C NMR data of complex materials, 315 (1995) 1

#### Pectinesterase

Hybrid tissue/enzyme biosensor for pectin, 306 (1995) 123

## Pencil electrode

An inexpensive and renewable pencil electrode for use in field-based stripping voltammetry, 345 (1997) 67

#### Penicillamin

Determination of pharmaceutical thiols by liquid chromatography with electrochemical detection: Use of an electrode with a conductive carbon cement matrix, chemically modified with cobalt phthalocyanine, 332 (1996) 249

## Penicillin G

Receptor binding protein amperometric affinity sensor for rapid βlactam quantification in milk, 398 (1999) 13

## Penicillin sensitive ENFET

Correlation between the electrical charge properties of polymeric membranes and the characteristics of ion field effect transistors or penicillinase based enzymatic field effect transistors, 331 (1996) 217

#### Penicillinase

Penicillin enzyme biosensors based on pH membrane electrodes, 321 (1996) 27

Continuous-flow/stopped-flow system incorporating a rotating bioreactor for the determination of penicillins in pharmaceutical products, 396 (1999) 143

#### Penicillins

Simultaneous monitoring of glucose, lactic acid and penicillin by sequential injection analysis, 312 (1995) 149

Determination of penicillins in animal tissues at trace residue concentrations Part I. Determination of benzylpenicillin in milk by reversed-phase liquid chromatography with solid phase extraction and liquid chromatographic fractionation clean-up, 318 (1995) 95

On-line monitoring of glucose and penicillin by sequential injection analysis, 320 (1996) 199

A long-term stable penicillin-sensitive potentiometric biosensor with enzyme immobilized by heterobifunctional cross-linking, 323 (1996) 115

Application of factorial design to improve a FIA system for penicillin determination, 350 (1997) 353

Potentiometric biosensor for control of biotechnological production of penicillin G, 368 (1998) 205

Continuous-flow/stopped-flow system incorporating a rotating bioreactor for the determination of penicillins in pharmaceutical products, 396 (1999) 143

## Pentachlorophenol

Determination of pentachlorophenol in certified waste waters, soil samples and industrial effluents using ELISA and liquid solid extraction followed by liquid chromatography, 346 (1997) 49

#### Pentafluorobenzylation

Extractive pentafluorobenzylation using a polymeric phase-transfer catalyst: a convenient one-step pretreatment for gas chromatographic analysis of anionic compounds, 356 (1997) 165

#### Pentanol

Determination of anabolic steroids in pharmaceuticals by liquid chromatography with a microemulsion of sodium dodecyl sulfate and pentanol as mobile phase, 302 (1995) 163

#### Pentosidine

Reversed-phase chromatography of pentosidine-containing CNBr peptides from collagen, 352 (1997) 257

#### Pentosidine unrelated glycation products

Reversed-phase chromatography of pentosidine-containing CNBr peptides from collagen, 352 (1997) 257

## Pentylation

Evaluation of gas chromatography with a flame photometric detector based on quartz surface-induced emission for determining the speciation of inorganic and methylgermanium compounds, 337 (1997) 83

## Peptide analysis

Size-exclusion high-performance liquid chromatography of peptides: a review, 352 (1997) 387

Fluorescence binding assay for a small peptide based on a GFP fusion protein, 397 (1999) 279

## Peptide and protein tagging

Derivatization of peptides and small proteins for improved identification and detection in capillary zone electrophoresis (CZE), 400 (1999) 181

## Peptide detection

Sample preparation and reversed phase-high performance liquid chromatography analysis of food-derived peptides, 352 (1997)

## Peptide diastereomers

Chromatographic methods for the separation of enantiomers and epimers of  $\beta$ -alkyl amino acids and peptides containing them, 352 (1997) 335

## Peptide mapping

Development of an optimized peptide map for recombinant activated human protein C by means of an experimental design strategy, 352 (1997) 221

Intelligent peptide-mapping method for recombinant human tissuetype plasminogen activator by lysyl-endopeptidase digestion, 365 (1998) 241

# Peptide maps

Isoelectric focusing of proteins and peptides in gel slabs and in capillaries, 372 (1998) 1

# Peptide nucleic acid

Detection of point mutation in the p53 gene using a peptide nucleic acid biosensor, 344 (1997) 111

## Peptide purification

Size-exclusion high-performance liquid chromatography of peptides: a review, 352 (1997) 387

## Peptide secondary structure

Monitoring of α-helical secondary structures in peptides by reversed-phase HPLC of replacement sets, 352 (1997) 365

## Peptide separation

Analysis of peptides from bovine hemoglobin and tuna myoglobin enzymatic hydrolysate: use of HPLC with on-line second-order derivative spectroscopy for the characterization of biologically active peptides, 352 (1997) 201

# Peptide synthesis

Micellar electrokinetic chromatography of highly hydrophobic peptides, 372 (1998) 273

## Peptide-modified carbon paste electrodes

Potentiometric stripping analysis of bioactive peptides at carbon electrodes down to subnanomolar concentrations, 332 (1996) 49

## **Peptides**

Surface and polarization fluorescence studies on the interaction of an RGD sequence containing a Hepatitis A virus peptide with phospholipids, 303 (1995) 65

Automated monitoring of amino acids during fermentation processes using on-line ultrafiltration and column liquid chromatography: application to fermentation medium improvement, 303 (1995) 175

Analysis of trace level peptides using capillary electrophoresis with UV laser-induced fluorescence, 307 (1995) 163

Ultraviolet detection of peptides by reversed-phase liquid chromatography using an in-line reactor containing copper metal, 309 (1995) 169

Comparative prediction of the retention behaviour of small peptides in several reversed-phase high-performance liquid chromatography columns by using partial least squares and multiple linear regression, 326 (1996) 77

Single-label fluorescent derivatization of peptides, 339 (1997) 279 Solvent effects on protonation equilibria of peptides and quinolones by factor analysis applied to the correlation between dissociation constants and solvatochromic parameters in acetonitrile-water mixtures, 351 (1997) 397

Stationary phases for peptide analysis by high performance liquid chromatography: a review, 352 (1997) 1

Derivatization of peptides for their determination by chromatographic methods, 352 (1997) 31

Sample preparation and reversed phase-high performance liquid chromatography analysis of food-derived peptides, 352 (1997) 119

Size-exclusion high-performance liquid chromatography of peptides: a review, 352 (1997) 387

Recent advances in peptide separation by countercurrent chromatography, 352 (1997) 411

Ultraviolet detector response of glycine and alanine homopeptides: Some specific features in capillary electrophoresis, 372 (1998) 257

Surface deactivation in protein and peptide analysis by capillary electrophoresis, 383 (1999) 1

Strategies for analysis of electrophoretically separated proteins and peptides, 383 (1999) 27

Affinity capillary electrophoresis of proteins and peptides, 383 (1999) 61

Chromatographic behavior of ionizable compounds in liquid chromatography. Part 2. Standardization of potentiometric sensors and effect of pH and ionic strength on the retention of analytes using acetonitrile-water mobile phases, 389 (1999) 43

Determination of angiotensin II in blood-brain barrier permeability studies using microbore LC with p-nitrophenyl-2,5-dihydroxy-phenylacetate bis-tetrahydropyranyl ether as a pre-separation electrochemical labeling reagent, 394 (1999) 299

Fragmentation of protonated oligopeptides XLDVLQ (X=L, H, K or R) by surface induced dissociation: additional evidence for the 'mobile proton' model, 397 (1999) 247

#### Peracide

Determination of peracid and putative enzymatic peracid formation by an easy colorimetric assay, 378 (1999) 293

## Perchlorate

Spectrophotometric determination of perchlorate after extraction as protriptylinium perchlorate, 356 (1997) 141]

#### Perchloric acid

Rapid spectrofluorimetric method for traces of gibberelin, 346 (1997) 249

#### Perchloroethylene

Whole-cell biosensor for determination of volatile organic compounds in the form of aerosols, 364 (1998) 153

## Perfluorooctanoic acid

Homogeneous liquid-liquid extraction of uranium(VI) from acetate aqueous solution, 387 (1999) 71

## Perfluorosulfonated ionomer

Simultaneous homogeneous immunoassay of phenytoin and phenobarbital using a Nafion-loaded carbon paste electrode and two redox cationic labels, 356 (1997) 195

## Perfusion chromatography

The development of a non-competitive immunoenzymometric assay of cocaine, 358 (1998) 5

# Periodate

Extraction equilibrium of the ion-associate of periodate with amiloride hydrochloride and simultaneous spectrophotometric determination of periodate and iodate by liquid-liquid extraction, 356 (1997) 85

Flow injection chemiluminescent determination of trace amounts of hydrogen peroxide in snow-water using KIO<sub>4</sub>-K<sub>2</sub>CO<sub>3</sub> system, 371 (1998) 171

## Periodate determination

Fluorometric determination of periodate with thiamine and its application to the determination of ethylene glycol and glycerol, 359 (1998) 87

# Periodate oxidation

An improved spectrophotometric method for the determination of free, bound and total N-acetylneuraminic acid in biological fluids, 327 (1996) 277

Determination of glucose and fructose in mixtures by a kinetic method with chemiluminescence detection, 398 (1999) 191

## Periodate-resorcinol method

An improved spectrophotometric method for the determination of free, bound and total N-acetylneuraminic acid in biological fluids, 327 (1996) 277

## Peristaltic pumps

An investigation of internal pressures in capillary flow injection systems, 358 (1998) 95

#### Permanently coated column

Simultaneous determination of inorganic anions and carboxylic acids in wine using isocratic separation on a permanently coated reversed-phase column and UV indirect detection, 321 (1996) 263

## Permanently coated polymeric column

A study of a permanently coated polymeric column for simultaneous separation of inorganic anions and mono-carboxylic acids, 339 (1997) 231

## Permanganate

Direct chemiluminescence determination of ascorbic acid using flow injection analysis, 356 (1997) 289

Direct flow injection chemiluminescence determination of salicylamide, 394 (1999) 159

# Permeability

Scanning electrochemical microscopy: beyond the solid/liquid interface, 385 (1999) 223

#### Permethrin

Determination of permethrin in indoor air by liquid chromatography with enzyme linked immunosorbent assay, 393 (1999) 103

## Permselective membranes

Amperometric /-lactate-sensing electrode based on a polyion complex layer containing lactate oxidase. Application to serum and milk samples, 314 (1995) 233

Glucose oxidase/polyion complex-bilayer membrane for elimination of electroactive interferents in amperometric glucose sensor, 364 (1998) 173

# Permselectivity

Conductometric urea sensor. Use of additional membranes for the improvement of its analytical characteristics, 321 (1996) 35

Flow injection analysis as a tool for studying polymer modified electrodes, 329 (1996) 181

Molecularly imprinted polymeric membranes involving tetrapeptide EQKL derivatives as chiral-recognition sites toward amino acids, 365 (1998) 59

Functional-group effects on the ion-exchange properties of organically modified silicates, 397 (1999) 113

## Peroxidase

A multichannel immunochemical sensor for determination of 2,4dichlorophenoxyacetic acid, 316 (1995) 73

Amperometric determination of cholesterol in serum with use of a renewable surface peroxidase electrode, 318 (1995) 89

Alcohol biosensors based on coupled oxidase-peroxidase systems, 327 (1996) 223

Enzyme immunoassay using peroxidase as a label and a dip-strip test for monitoring residual bacitracin in chicken plasma, 346 (1997) 207

Amperometric detection of phenols using peroxidase-modified graphite electrodes, 347 (1997) 51

Peroxidase-based spectrophotometric methods for the determination of ascorbic acid, norepinephrine, epinephrine, dopamine and levodopa, 357 (1997) 261

Ascorbic acid determination with an ion-sensitive field effect transistor-based peroxidase biosensor, 359 (1998) 143

Enzymatically generated polyphenols as array-based metal-ion sensors, 370 (1998) 251

Amperometric peroxide sensor based on horseradish peroxidase and toluidine blue *O*-acrylamide polymer in carbon paste, 373 (1998) 241

Study and analytical application of bromopyrogallol red as a hydrogen donor substrate for peroxidase, 379 (1999) 63

Biosensor for phenol based on the direct electron transfer blocking of peroxidase immobilising on silica-titanium, 390 (1999) 65

Use of a peroxidase reactor in flow injection analysis for the determination of chloramine and the inhibition kinetics, 390 (1999) 141

Visual determination of mercury(II) using horseradish peroxidase immobilized on polyurethane foam, 392 (1999) 151

Zucchini crude extract-palladium-modified carbon paste electrode for the determination of hydroquinone in photographic developers, 398 (1999) 145

Direct electron transfer between heme-containing enzymes and electrodes as basis for third generation biosensors, 400 (1999) 91

#### Peroxidase mimicry

Mimicry of peroxidase by co-immobilization of 1-allylimidazole and hemin on N-isopropylacrylamide-based hydrogel, 400 (1999) 135

#### Peroxidase sensor

The development of a peroxidase biosensor for monitoring phenol and related aromatic compounds, 311 (1995) 245

## Peroxidase/NADH oscillator

Simultaneous superoxide and hydrogen peroxide detection in peroxidase/NADH oscillator, 354 (1997) 315

# Peroxidase-incorporated conducting polymer electrodes

Peroxidase-incorporated hydrophilic polythiophene electrode for the determination of hydrogen peroxide in acetonitrile, 318 (1996) 297

## Peroxidase-modified electrodes

Peroxidase-modified electrodes: Fundamentals and application, 330 (1996) 123

## Peroxidase-oxidase reaction

Simultaneous superoxide and hydrogen peroxide detection in peroxidase/NADH oscillator, 354 (1997) 315

## Peroxide

Silica sol-gel immobilized amperometric biosensor for hydrogen peroxide, 335 (1996) 137

#### Peroxide value

Direct parallel flow injection multichannel spectrophotometric determination of olive oil peroxide value, 389 (1999) 239

#### Peroxodisulfate oxidation

Total nitrogen determination by flow injection using on-line microwave-assisted digestion, 351 (1997) 273

#### Peroxomonosulfate

Chemiluminescence from fluorescent organic compounds induced by cobalt(II) catalyzed decomposition of peroxomonosulfate, 371 (1998) 163

## Peroxyacetic acid

Rapid and selective determination of peroxyacetic acid in disinfectants using flow injection analysis, 389 (1999) 233

# Peroxycarboxylic acid

Peroxide analysis in laundry detergents using liquid chromatography, 363 (1998) 97

#### Peroxyoxalate

Evaluation of peroxyoxalate chemiluminescence for the sensitive determination of hallucinogenic alkaloids, 314 (1995) 87

Peroxyoxalate chemiluminescence in aqueous solutions: Coupling of immobilized enzyme reactors and 1,1'-oxalyldiimidazole chemiluminescence reaction to flow-injection analysis and liquid chromatographic systems, 357 (1997) 111

Very fast peroxyoxalate chemiluminescence, 400 (1999) 257

#### Peroxyoxalate chemiluminescence

Enhancement of peroxyoxalate chemiluminescence by copper(II) in flow injection analysis; optimization by factorial design analysis, 320 (1996) 99

The relative significance of multiple pathways in peroxyoxalate chemiluminescence reactions, 329 (1996) 117

#### Perspiration

Physical stimuli and emotional stress-induced sweat secretions in the human palm and forehead, 365 (1998) 319

#### Persulfate oxidation

Model compounds for the determination of organic and total phosphorus dissolved in natural waters, 318 (1996) 385

## Perturbation theory

Fast calculation of  $\pi$ -electron charge densities in organic molecules: Non-condensed compounds, 314 (1995) 101

# Pervaporation

On-line pervaporation separation process for the potentiometric determination of fluoride in "dirty" samples, 308 (1995) 246

Continuous microwave assisted pervaporation/atomic fluorescence detection: An approach for speciation in solid samples, 324 (1996) 69

Pervaporation: An interface between fermentors and monitoring, 330 (1996) 265

Sequential determination of total and volatile acidity in wines based on a flow injection-pervaporation approach, 381 (1999) 23

On-line determination of cyanide in the presence of sulfide by flow injection with pervaporation, 390 (1999) 133

## Pesticide detection

Pentachlorophenol detection at the source of emission . Sampling equipment and immunochemical analysis, 359 (1998) 321

#### Pesticide enrichment

Determination of pesticides in water using ATR-FTIR spectroscopy on PVC/chloroparaffin coatings, 334 (1996) 85

#### Pesticide monitoring

Label free optical immunoprobes for pesticide detection, 347 (1997) 219

## Pesticide residue analysis

Trace determination of triazine herbicides by means of coupledcolumn liquid chromatography and large volume injection, 338 (1997) 223

Automated sample clean-up procedure for organophosphorus pesticides in several aquatic organisms using normal phase liquid chromatography, 374 (1998) 215

#### Pesticides

Indirect voltammetric determination of carbaryl and carbofuran using partial least squares calibration, 305 (1995) 219

Amperometric flow-through biosensor for the determination of pesticides, 308 (1995) 129

A biosensor as warning device for the detection of cyanide, chlorophenols, atrazine and carbamate pesticides, 311 (1995) 255

Validation of an enzymatic biosensor with various liquid chromatographic techniques for determining organophosphorus pesticides and carbaryl in freeze-dried waters, 311 (1995) 265

Evaluation of the use of free and immobilised acetylcholinesterase for paraoxon detection with an amperometric choline oxidase based biosensor, 311 (1995) 273

A direct optical immunosensor for atrazine detection, 311 (1995) 289
Development of immunoassays for the analysis of chlorpyrifos and its major metabolite 3,5,6-trichloro-2-pyridinol in the aquatic environment, 311 (1995) 341

Determination of atrazine and alachlor in natural waters by a rapidmagnetic particle-based ELISA Influence of common crossreactants: deethylatrazine, deisopropylatrazine, simazine and metolachlor, 311 (1995) 357

Application of a monoclonal antibody-based ELISA to the determination of carbaryl in apple and grape juices, 311 (1995) 365

Determination of Procymidone in vegetables by a commercial competitive inhibition enzyme immunoassay, 311 (1995) 371

Application of immunological methods for the determination of environmental pollutants in human biomonitoring. A review, 311 (1995) 383

Immunochemical techniques: antibody production for pesticide analysis. A review, 311 (1995) 393

On-line preconcentration and liquid chromatographic analysis of phenylurea pesticides in environmental water using a silicabased immunosorbent, 311 (1995) 429

A multichannel immunochemical sensor for determination of 2,4dichlorophenoxyacetic acid, 316 (1995) 73

On-line sample handling strategies for the trace-level determination of pesticides and their degradation products in environmental waters, 318 (1995) 1

Chemometric methods for the development of a biosensor system and the evaluation of inhibition studies with solutions and mixtures of pesticides and heavy metals Part 1. Development of an enzyme electrodes system for pesticide and heavy metal screening using selected chemometric methods, 318 (1996) 275

Determination of active components in insecticide formulations by liquid chromatography and resolution of overlapped peaks by multivariate analysis and derivative spectrophotometry, 321 (1996) 273

Multivariate evaluation of inhibition studies on an enzyme electrodes system with pesticides and mixtures of mercury and pesticides, 325 (1996) 1

Potentiometric detection of pesticides in water samples, 325 (1996) 151

The interaction of some pesticides and herbicides with humic substances, 327 (1996) 191

Voltammetric behaviour of some nitropesticides at the mercury drop electrode, 329 (1996) 73

Immunoenzymatic application of a redox potential biosensor, 335 (1996) 127

Acid phosphatase/glucose oxidase-based biosensors for the determination of pesticides, 336 (1996) 67

Determination of anticholinesterase pesticides in real samples using a disposable biosensor, 337 (1997) 315

Sampling of polar pesticides from water matrices, 338 (1997) 3

Analysis of pyraclofos in crops by the Swedish National Food Administration gas chromatographic multiresidue methodology, 338 (1997) 63

Detection of more than 50 substituted phenols as their t-butyldimethylsilyl derivatives using gas chromatography-mass spectrometry, 341 (1997) 21

New detection method for atrazine pesticides with the optical waveguide Mach-Zehnder immunosensor, 341 (1997) 171

Improved direct piezoelectric biosensors operating in liquid solution for the competitive label-free immunoassay of 2,4-dichlorophenoxyacetic acid, 347 (1997) 43

The specific immunochemical detection of 2,4-dichlorophenoxyacetic acid and 2,4,5-trichlorophenoxyacetic acid pesticides by amperometric cholinesterase biosensors, 347 (1997) 71

A monoclonal antibody-based ELISA for the analysis of azinphosmethyl in fruit juices, 347 (1997) 95

Multianalyte effect in the determination of cross-reactivities of pesticide immunoassays in water matrices, 347 (1997) 121

Homogeneous enzyme immunoassay for pyrethroid pesticides and their derivatives using bacillary alpha-amylase as label, 347 (1997) 131

Antibodies for immunosensors, 347 (1997) 177

Prototype of a newly developed immunochemical detection system for the determination of pesticide residues in water, 347 (1997) 187

Figures of merit in multivariate calibration. Determination of four pesticides in water by flow injection analysis and spectrophotometric detection, 348 (1997) 167

Resolution of overlapping peaks in HPLC with diode array detection by application of partial least squares calibration to cross-sections of spectrochromatograms, 348 (1997) 177 Determination of imidacloprid and its major metabolite in soils by liquid chromatography with pulsed reductive amperometric detection, 349 (1997) 199

Large-volume injection in gas chromatography-ion trap tandem mass spectrometry for the determination of pesticides in the marine environment at the low ng/l level, 353 (1997) 153

Near field thermal lens detector for gradient elution liquid chromatography, 353 (1997) 207

Gas chromatographic analysis of pesticides in water with off-line solid phase extraction, 356 (1997) 155

Cyclodextrin-enhanced fluorescence and photochemically-induced fluorescence determination of five aromatic pesticides in water, 360 (1998) 129

Strengths and limitations of immunoassays for effective and efficient use for pesticide analysis in water samples: A review, 362 (1998) 3

Diphenylurea hapten sensing with a monoclonal antibody and its Fab fragment: Kinetic and thermodynamic investigations, 362 (1998) 101

Photochemical-fluorimetric method for the determination of the insecticide imidacloprid in water samples, 371 (1998) 247

New trends in environmental trace-analysis of organic pollutants: class-selective immunoextraction and clean-up in one step using immunosorbents, 376 (1998) 21

Determination of diflubenzuron and its main metabolites in forestry matrices by liquid chromatography with on-line diode-array and electrochemical detection, 384 (1999) 63

Monitoring of pesticides in river water based on samples previously stored in polymeric cartridges followed by on-line solid-phase extraction-liquid chromatography-diode array detection and confirmation by atmospheric pressure chemical ionization mass spectrometry, 386 (1999) 237

Immunosensor for trace determination of Irgarol 1051 in seawater using organic media, 387 (1999) 227

Trace measurement of dithiocarbamate based pesticide by adsorptive stripping voltammetry, 388 (1999) 111

Automated immunosensing system for 3,5,6-trichloro-2-pyridinol. Application to surface water samples, 392 (1999) 113

Excitation-emission matrix fluorescence based determination of carbamate pesticides and polycyclic aromatic hydrocarbons, 397 (1999) 61

Immuno affinity extraction of pesticides from surface water, 399 (1999) 69

Flow injection immunoaffinity analysis (FIIAA) — A screening technology for atrazine and diuron in water samples, 399 (1999) 89

Investigation of indicative methods in the Netherlands: validation of several commercial ELISAs for pesticides, 399 (1999) 143

A new technique to measure bird's dietary exposure to pesticides, 399 (1999) 173

## Petrol analysis

Vapour generation-Fourier transform infrared spectrometric determination of benzene, toluene and methyl tert.-butyl ether in gasolines, 333 (1996) 157

#### Petroleum

Electrochemical response of new carbon electrodes bulk modified with cobalt phthalocyanine to some thiols in the presence of heptane or human urine, 394 (1999) 91

## PFG spin echo NMR

Determination of the diffusion coefficient of 1-(2'-pyridylazo)-2naphthol in ethanol-water solutions using flow injection and nuclear magnetic resonance techniques, 386 (1999) 137

# PGM separation

Chemical pumping of rhodium by a supported liquid membrane containing Aliquat 336 as carrier, 346 (1997) 199

# pН

Dependence of the fluorescence of immobilized 1-hydroxypyrene-3,6,8-trisulfonate on solution pH: extension of the range of applicability of a pH fluorosensor, 304 (1995) 165

Determination of soil pH using a laboratory robot, 310 (1995) 319
A simple model for predicting the pH values of acidic natural waters,
314 (1995) 111

Complexation reactions of uranyl with arsenazo III, 355 (1997) 95 pH optical sensors based on sol-gels: Chemical doping versus covalent immobilization, 367 (1998) 159

Performance characteristics for the measurement of Cs and Sr by diffusive gradients in thin films (DGT), 368 (1998) 243

pH, alkalinity and total CO<sub>2</sub> in coastal seawater by potentiometric titration with a difference derivative readout, 394 (1999) 101

Fiber optic pH/Ca<sup>2+</sup> fluorescence microsensor based on spectral processing of sensing signals, 397 (1999) 93

## pH buffers

Evaluation of *n*-substituted aminosulfonic acid pH buffers with a morpholinic ring for cadmium and lead speciation studies by electroanalytical techniques, 394 (1999) 325

#### pH determination

Fiber-optic pH sensor based on Poly(o-methoxyaniline), 353 (1997) 275

# pH gradients

Use of pH gradients in continuous-flow systems and multivariate regression techniques applied to the determination of methionine and cysteine in pharmaceuticals, 348 (1997) 151

# pH independence

Overcoming the pH dependency of optical sensors: a pH-independent chloride sensor based on co-extraction, 398 (1999) 137

## pH independent

Computational neural networks for the evaluation of biosensor FIA measurements, 348 (1997) 135

## pH measurement

A colorimetric method with the use of BDJ detector for seawater pH measurement, 377 (1998) 179

#### pH microelectrodes

pH polymeric membrane microelectrodes based on neutral carriers and their application in aquatic environments, 395 (1999) 285

# pH optrode

Extending the response range of an optical fibre pH sensor using an artificial neural network, 330 (1996) 31

## pH sensing

Organically modified silicate films for stable pH sensors, 394 (1999)

Derivatized, swellable polymer microspheres for chemical transduction, 400 (1999) 55

#### pH sensitivity

Some spectroscopic and transport properties of a rare-earth chelate, Tb-PCTMP, 397 (1999) 267

#### pH sensor

Screen-printed ruthenium dioxide electrodes for pH measurements, 351 (1997) 143

Automated pH-ISFET measurements under hydrostatic pressure for marine monitoring application, 356 (1997) 205

Optical sensing of pH using thin films of substituted polyanilines, 357 (1997) 247

Molecular design, characterization, and application of multi-information dyes for multi-dimensional optical chemical sensing. Molecular design concepts of the dyes and their fundamental spectral characteristics, 373 (1998) 271

A fiber-optic pH sensor prepared using a base-catalyzed organosilica sol-gel, 376 (1998) 235

Hydrogen ion selective electrode based on poly(1-aminoanthracene) film, 377 (1998) 21

Optochemical sensing by immobilizing fluorophore-encapsulating liposomes in sol-gel thin films, 400 (1999) 45

# pH stability

Sodium-selective electrodes based on triester monoacid derivatives of p-tert-butylcalix[4]arene. Comparison with tetraester calix[4]arene ionophores, 336 (1996) 1

#### Ph D

Towards a closer integration of Ph.D. training to industrial and societal needs, 393 (1999) 147

## Phanerochaete chrysosporium

Pyrolysis-gas chromatography-mass spectrometry characterization of wheat straw alkaline-cooking effluents after biological treatment with the fungi Phanerochaete chrysosporium and Ganoderma australe, 309 (1995) 145

## **Pharmaceutical**

Flow injection spectrophotometric determination of paracetamol in pharmaceuticals by means of on-line microwave-assisted hydrolysis and reaction with 8-hydroxyquinoline (8-quinolinol), 330 (1996) 59

Quantitation of the active compound and major excipients in a pharmaceutical formulation by near infrared diffuse reflectance spectroscopy with fibre optical probe, 333 (1996) 147

## Pharmaceutical analysis

Determination of anabolic steroids in pharmaceuticals by liquid chromatography with a microemulsion of sodium dodecyl sulfate and pentanol as mobile phase, 302 (1995) 163 Chemiluminescence determination of captopril based on a Rhodamine B sensitized cerium(IV) method, 303 (1995) 121

Chemiluminescence determination of some local anaesthetics, 303 (1995) 137

Variable-angle scanning fluorescence spectrometry for the simultaneous determination of three diuretic drugs, 306 (1995) 313

Spectrofluorimetric flow injection determination of adrenaline with an iodine solid-phase reactor, 308 (1995) 334

Continuous-flow spectrophotometric determination of sulfadiazine by diazotisation with in situ preparation of nitrite, 308 (1995) 451

New cocaine-selective membrane electrode, 316 (1995) 371

Potentiometric membrane sensors for the selective determination of cinnarizine in pharmaceutical preparations, 321 (1996)

Photochemical derivatization and spectrophotometric determination of thioridazine by flow injection, 326 (1996) 23

Determination of ranitidine in pharmaceutical preparations using manual and flow injection potentiometry and spectrophotometry, 332 (1996) 39

Study on sensitized photochemical fluorescence of menadione sodium bisulfite and its application in pharmaceutics analysis, 343 (1997) 109

Determination of acetaminophen by thermometric titrimetry, 343 (1997) 125

Effective mass sampled by NIR fiber-optic reflectance probes in blending processes, 348 (1997) 303

Potentiometric determination of salicylhydroxamic acid (urinary struvite stone inhibitor) based on the inhibition of urease activity, 351 (1997) 91

Flow-injection chemiluminometric determination of some phenothiazines in dosage forms and biological fluids, 358 (1998) 255

On-line solvent recycling: a tool for the development of clean analytical chemistry in flow injection Fourier transform infrared spectrometry. Determination of ketoprofen, 361 (1998) 253

Membrane sensors for the selective determination of fluorouracil, 363 (1998) 81

Automated flow-injection system for extending the linear range, 366 (1998) 271

Flow injection chemiluminescence determination of catecholamines with electrogenerated hypochlorite, 374 (1998) 105

Kinetic determination of ansamicins in pharmaceutical formulations and human urine. Manual and semiautomatic (stopped-flow) procedures, 376 (1998) 365

Determination of metformin in pharmaceutical preparations using potentiometry, spectrofluorimetry and UV-visible spectrophotometry, 378 (1999) 299

Disposable integrated cuvette test for quantitative determination of vitamin C in pharmaceutical products, 379 (1999) 69

Chemiluminescence-based liquid chromatographic determination of hydrochlorothiazide and captopril, 386 (1999) 257

# Pharmaceutical compounds

Solvent effects on the fluorescent emission of some new benzimidazole derivatives, 303 (1995) 73

## Pharmaceutical formulations

- Solid surface room temperature phosphorimetry analysis of yohimbine hydrochloride in pharmaceutical formulations, 309 (1995) 345
- Liquid chromatographic determination of taxol and related derivatives using a new polyfluorinated reversed-phase column, 319 (1996) 187
- Flow injection spectrophotometric determination of L-ascorbic acid in pharmaceutical formulations with on-line solid-phase reactor containing copper (II) phosphate, 366 (1998) 55

## Pharmaceutical preparations

- Continuous kinetic method for the quantitative resolution of structural isomers of arginine and ornithine, 315 (1995) 145
- Sensitive and selective determination of diclofenac sodium in pharmaceutical preparations by solid phase ultraviolet absorptiometry, 369 (1998) 263
- Simultaneous determination of caffeine, theobromine and theophylline in foods and pharmaceutical preparations by using ion chromatography, 371 (1998) 287
- A selective optosensor for UV spectrophotometric determination of thiamine in the presence of other vitamins B, 376 (1998) 227
- Partial least-squares method in analysis by differential pulse polarography. Simultaneous determination of amiloride and hydrochlorothiazide in pharmaceutical preparations, 381 (1999) 247
- Flow-injection solid-phase spectrophotometry for the determination of zinc in pharmaceutical preparations, 383 (1999) 309

## Pharmaceutical products

L-Cysteine determination using a polyphenol oxidase-based inhibition flow injection procedure, 399 (1999) 287

#### Pharmaceutical samples

- Determination of calcium in water, urine and pharmaceutical samples by sequential injection analysis, 323 (1996) 75
- Determination of iron(III) in pharmaceutical samples using dialysis in a sequential injection analysis system, 357 (1997) 141

## Pharmaceuticals

- Individual and joint stopped flow kinetic spectrofluorimetric determination of neomycin and tyrothricin, 303 (1995) 31
- Electrochemical determination of the loop diuretics piretanide and furosemide in pharmaceutical formulations and urine, 305 (1995) 332
- Polarographic and voltammetric behaviour of ofloxacin and its analytical application, 307 (1995) 49
- Precipitation flow-injection method for the determination of saccharin in mixtures of sweeteners, 308 (1995) 275
- Flow-injection chemiluminometric determination of ascorbic acid based on its sensitized photooxidation, 308 (1995) 299
- Flow-injection spectrophotometric determination of carbimazole and methimazole, 308 (1995) 457
- Use of a stopped-flow/T-format spectrofluorimeter for simultaneous kinetic analyses, 310 (1995) 453
- Rapid detection of ℓ-glutamic acid using a series-electrode piezoelectric quartz crystal sensor, 313 (1995) 229
- Analytical characterisation and application of a p-benzoquinone mediated amperometric graphite sensor with covalently linked glucoseoxidase, 315 (1995) 101

- Spectrofluorimetric flow-injection method for the successive determination of chloroxine and chlorquinaldol in pharmaceutical preparations, 326 (1996) 41
- Determination of chlorine and dissolved oxygen in waters and of ascorbic acid in pharmaceuticals by iodimetric potentiometric titration using a plasticized poly(vinyl chloride) membrane electrode, 333 (1996) 107
- The spectrophotometric determination of bismuth after extraction of protriptylinium tetraiodobismuthate(III), 334 (1996) 209
- Spectrophotometric determination of bismuth in pharmaceutical samples by extraction of the tetraiodobismuthate(III) anion into propylene carbonate, 337 (1997) 113
- Hexadecylpyridinium chloride micelles for the simultaneous kinetic determination of cysteine and cystine by their induction of the iodine-azide reaction, 337 (1997) 341
- Use of pH gradients in continuous-flow systems and multivariate regression techniques applied to the determination of methionine and cysteine in pharmaceuticals, 348 (1997) 151
- Indirect determination of ascorbic acid by solid-phase spectrophotometry, 360 (1998) 143
- A new derivatization procedure for the determination of cephalexin with 1,2-naphthoquinone 4-sulphonate in pharmaceutical and urine samples using solid-phase extraction cartridges and UV-visible detection, 370 (1998) 115
- Determination of Ranitidine and Salbutamol by Flow Injection Analysis with Chemiluminescence Detection, 384 (1999) 151
- Analytical control of pharmaceutical production steps by near infrared reflectance spectroscopy, 392 (1999) 237
- Direct flow injection chemiluminescence determination of salicylamide, 394 (1999) 159
- Study of various indicating redox systems on the indirect flowinjection biamperometric determination of pharmaceuticals, 396 (1999) 161
- Flow spectrophotometric determination of ammonium ion, 398 (1999) 311

## Pharmacokinetic applications

A review of microdialysis sampling for pharmacokinetic applications, 379 (1999) 227

## **Pharmacokinetics**

Combination of flow injection with capillary electrophoresis.. Part 5. Automated preconcentration and determination of pseudoephedrine in human plasma, 394 (1999) 13

## Phase inversion

Molecular imprint membranes of polyacrylonitrile copolymers with different acrylic acid segments, 365 (1998) 81

## Phase separation

Flow injection spectrophotometric determination of total carbonyls in hydrocarbons by reaction with vanillin, 351 (1997) 281

# Phase transition

Stimuli-sensitive hydrogel material for biosensor-chemical trigger, 347 (1997) 27

## Phase-modulation

Phase-modulation fluorescence lifetime resolution of quinine and quinidine by ion-pair diastereomeric complexation, 381 (1999) 11

## Phases

Assessment of the intermediate phase in milk fat by low-resolution nuclear magnetic resonance, 311 (1995) 217

## Phenacyl phosphate

Highly sensitive immunological assays for human chorionic gonadotrophin and prostatic acid phosphatase using phenacyl phosphate as a chemiluminescent label, 309 (1995) 221

#### Phenanthrene

Close overlapping discrimination of polycyclic aromatic hydrocarbons by synchronous scanning at variable-angle solid-phase spectrofluorimetry, 302 (1995) 193

Study of new facile deoxygenation methods in cyclodextrin induced room temperature phosphorescence, 357 (1997) 119

#### Phenanthroline

Membrane sensors for the selective determination of fluorouracil, 363 (1998) 81

# 1,10-phenanthroline

Extractive spectrophotometric determination of silver(I) at the 10<sup>-7</sup> M level using 1,10-phenanthroline and tetrabromophenolphthalein ethyl ester, 333 (1996) 167

1,10-Phenanthroline as a complexing agent for on-line sorbent extraction/preconcentration for flow injection-flame atomic absorption spectrometry, 392 (1999) 283

Dissociation of Ferroin in acidic solutions and Nafion <sup>R</sup> membranes, 395 (1999) 27

## 1,10-Phenanthroline derivatives

Capillary electrophoretic separation of several transition-metal ions as their complexes with 1,10-phenanthroline derivatives and its application to the determination of copper in duralmin alloys, 364 (1998) 75

## Phenobarbitone

Supercritical fluid chromatographic method using phenyl packed column for determination of phenobarbitone and phenytoin sodium in dosage form, 384 (1999) 143

# Phenol biosensor

Biosensor for phenol based on the direct electron transfer blocking of peroxidase immobilising on silica-titanium, 390 (1999) 65

## Phenolic acids

Study of the enhanced chemiluminescence from the luminol-horseradish peroxidase-hydrogen peroxide-p-coumaric acid system at very short times: stopped flow selective determination of pcoumaric acid in beers, 310 (1995) 399

## Phenolic compounds

Remote electrochemical biosensor for field monitoring of phenolic compounds, 312 (1995) 39

α-Cyclodextrin as a restricted access mobile phase for reversedphase liquid chromatography with fluorimetric detection of phenolic compounds, 328 (1996) 73

Liquid chromatography/electrochemical detection of phenols at a Poly[Ni-(Protoporphyrin IX)] chemically modified electrode, 336 (1996) 195

Determination of phenols in water by on-line solid-phase disk extraction and liquid chromotography with electrochemical detection, 340 (1997) 191

Amperometric detection of phenols using peroxidase-modified graphite electrodes, 347 (1997) 51

Silica sol-gel immobilized amperometric biosensor for the determination of phenolic compounds, 362 (1998) 203

Effect of competitor design on immunoassay specificity: Development and evaluation of an enzyme-linked immunosorbent assay for 2,4-dinitrophenol, 387 (1999) 267

## Phenolic polymers

Enzymatically generated polyphenols as array-based metal-ion sensors, 370 (1998) 251

## Phenolics

Spectrophotometric determination of total phenolics by solvent extraction and sorbent extraction optosensing using flow injection methodology, 310 (1995) 437

#### Phenolphthalein

Using a microdialysis shunt probe to monitor phenolphthalein glucuronide in rats with intact and diverted bile flow, 379 (1999) 359

# Phenols

Determination of phenols in sea water by liquid chromatography with electrochemical detection after enrichment by using solidphase extraction cartridges and disks, 304 (1995) 75

Flow-injection analysis of phenols at a graphite electrode modified with co-immobilised laccase and tyrosinase, 308 (1995) 137

Comparative study of on-line solid phase extraction followed by UV and electrochemical detection in liquid chromatography for the determination of priority phenols in river water samples, 311 (1995) 63

The development of a peroxidase biosensor for monitoring phenol and related aromatic compounds, 311 (1995) 245

Optimization of liquid chromatographic parameters for the separation of priority phenols by using mixed-level orthogonal array design, 312 (1995) 271

Sensitivity of modified bulk acoustic waves for the detection of phenols in the vapour phase, 318 (1995) 77

Poly(amphiphilic pyrrole)-tyrosinase-peroxidase electrode for amplified flow injection-amperometric detection of phenol, 319 (1996) 145

Determination of total phenols in waters and wastewaters using flow injection with electrochemical detection; an alternative to the standard colorimetric procedure, 323 (1996) 39

Flow-through tyrosinase enzyme reactor based on reticulated vitreous carbon functionalized by an electrochemically synthesized film, 326 (1996) 149 Resolution of phenol, o-cresol, m-cresol and p-cresol mixtures by excitation fluorescence using partial least-squares (PLS) multivariate calibration, 335 (1996) 23

Detection of more than 50 substituted phenols as their t-butyldimethylsilyl derivatives using gas chromatography-mass spectrometry, 341 (1997) 21

Determination of chlorine dioxide using 4-aminoantipyrine and phenol by flow injection analysis, 341 (1997) 257

An ion-interaction RP-HPLC method for the determination of the eleven EPA priority pollutant phenols, 346 (1997) 61

Fluorescent sensor based on newly synthesized fluorescein octadecyl ether octadecyl ester (FODEE) for direct determination of phenols in aqueous solutions, 351 (1997) 197

The 2.5th order differential voltammetric determination of phenol with a composite carbon paste/polyamide electrode, 353 (1997) 71

Use of cobalt(II) phthalocyanine to improve the sensitivity and stability of glassy carbon electrodes for the detection of cresols, chlorophenols and phenol, 354 (1997) 307

Amperometric immunosensors and enzyme electrodes for environmental applications, 362 (1998) 47

Conjoint prediction of the retention of neutral and ionic compounds (phenols) in reversed-phase liquid chromatography using the solvation parameter model, 368 (1998) 129

Dissociation constants of neutral and charged acids in methyl alcohol. The acid strength resolution, 374 (1998) 309

Metallomesogens as stationary phases for the separation of phenols by gas chromatography, 384 (1999) 51

Perturbation of a solid phase separation process by a non-thermal microwave effect, 387 (1999) 113

Improved stability and altered selectivity of tyrosinase based graphite electrodes for detection of phenolic compounds, 387 (1999) 309

Development and demonstration of an immobilised-polyphenol oxidase bioprobe for the detection of phenolic pollutants in water, 389 (1999) 161

Determination of small quantities of phenol in water, 396 (1999) 317

#### **Phenothiazines**

Spectrophotometric determination of bromate ions using phenothiazines, 313 (1995) 121

Accumulation and trace measurements of phenothiazine drugs at DNA-modified electrodes, 332 (1996) 139

Simultaneous spectrophotometric determination of chlorpromazine, perphenazine and acetopromazine by use of the kinetic wavelength pair-method, 349 (1997) 33

Flow-injection chemiluminometric determination of some phenothiazines in dosage forms and biological fluids, 358 (1998)

Determination of drugs based on the formation of mixed aggregates with surfactants, 362 (1998) 285

# Phenoxyalkyl acid

Effect of aliphatic alcohols as mobile phase modifiers on separation of phenylurea and phenoxyalkyl acid herbicides by micellar electrokinetic capillary chromatography, 317 (1995) 181

## 3-phenylacetylamino-piperidine-2,6-dione

Enantiomeric separation of some piperidine-2.6-dione drugs on tolylcellulose by liquid chromatography, 346 (1997) 183

#### Phenylalanine

Nuclear magnetic resonance spectroscopic analysis of the selective complexation of the cis and trans isomers of phenylalanylproline by β-cyclodextrin, 307 (1995) 449

## Phenylarsonate

Determination of arsenic species by field amplified injection capillary electrophoresis after modification of the sample solution with methanol, 389 (1999) 9

## 1-Phenylazo-4-naphthol

Resolution of overlapping UV-visible absorption bands: quantitative analysis of tautomeric equilibria, 314 (1995) 225

#### 3-Phenyl-4-benzoyl-5-isoxazolone

3-Phenyl-4-benzoyl-5-isoxazolone: A promising chelate extractant for actinide separation from acidic nuclear waste solutions, 320 (1996) 151

#### Phenylenediamine

Development of a needle-type biosensor for intravascular glucose monitoring, 313 (1995) 45

#### Phenylephrine

Determination of phenylephrine with a modified carbon paste electrode, 305 (1995) 83

## Phenyls, substituted

Fast calculation of π-electron charge densities in organic molecules: Non-condensed compounds, 314 (1995) 101

## Phenyltins

Evaluation of derivatization techniques for the analysis of organotin compounds in biological tissue, 338 (1997) 51

# Phenylurea

Effect of aliphatic alcohols as mobile phase modifiers on separation of phenylurea and phenoxyalkyl acid herbicides by micellar electrokinetic capillary chromatography, 317 (1995) 181

Development of anti-phenylurea antibody purification techniques for improved environmental applications, 376 (1998) 41

#### Phenylurea pesticides

On-line preconcentration and liquid chromatographic analysis of phenylurea pesticides in environmental water using a silica-based immunosorbent, 311 (1995) 429

#### Phenytoin

Novel type of flow injection immunoassay for the determination of phenytoin in serum, 391 (1999) 9

#### Phenytoin sodium

Supercritical fluid chromatographic method using phenyl packed column for determination of phenobarbitone and phenytoin sodium in dosage form, 384 (1999) 143

# Pheophytinization

Successfully controlled isomerization and pheophytinization of bacteriochlorophyll b by weak acid in the dark in vitro, 361 (1998) 285

# pH-FET

Gas sensitive field-effect transistors: applications to the monitoring of biotechnological processes, 373 (1998) 253

#### **Phosmet**

A monoclonal antibody-based ELISA for the analysis of azinphosmethyl in fruit juices, 347 (1997) 95

# Phosphadithiamacrocycle

Application of a new phosphadithiamacrocycle to ClO<sup>-</sup><sub>4</sub>-selective CHEMFET and ion-selective electrode devices, 320 (1996) 63

### Phosphatase inhibition

Development of a bioanalytical phosphatase inhibition test for the monitoring of microcystins in environmental water samples, 394 (1999) 243

#### Phosphatase inhibition tests

Potential of immunoextraction coupled to analytical and bioanalytical methods (liquid chromatography, ELISA kit and phosphatase inhibition test) for an improved environmental monitoring of cyanobacterial toxins, 399 (1999) 75

# Phosphate

A novel enzyme sensor for the determination of inorganic phosphate, 309 (1995) 47

Development of a micro flow injection manifold for the determination of orthophosphate, 313 (1995) 155

Determination of total phosphorus in waters and wastewaters by online UV/thermal induced digestion and flow injection analysis, 326 (1996) 29

Evaluation of spectrophotometric methods for determination of orthophosphates by sequential injection analysis, 350 (1997) 21

Elimination of the Schlieren effect in the determination of reactive phosphorus in estuarine waters by flow-injection analysis, 351 (1997) 265

Simultaneous determination of orthophosphate and arsenate based on multi-way spectroscopic-kinetic data evaluation, 354 (1997) 241

Application of a bis-thiourea ionophore for an anion selective electrode with a remarkable sulfate selectivity, 358 (1998) 35

Interference from chromate, germanate, tungstate and vanadate when determining phosphate in aqueous solution by the phosphoantimonylmolybdenum blue method, 358 (1998) 245

Amperometric immunosensors and enzyme electrodes for environmental applications, 362 (1998) 47

Direct determination of phosphate in soil extracts by potentiometric flow injection using a cobalt wire electrode, 363 (1998) 191

Characterisation, validation and comparison of three methods for the extraction of phosphate from sediments, 376 (1998) 183

Simultaneous determination of orthophosphate and silicate in brackish water, 378 (1999) 183 Further studies into the development of a micro-FIA (µFIA) system based on electroosmotic flow for the determination of phosphate as orthophosphate, 382 (1999) 1

### Phosphate buffer

Electrosynthesis of polypyrrole in iodide solution. Film growth, redox behaviour and potentiometric response, 355 (1997) 217

### Phosphate determination

Multicommutation in flow analysis. Part 5: Binary sampling for sequential spectrophotometric determination of ammonium and phosphate in plant digests, 334 (1996) 287

# Phosphate interference

Minimization of phosphate interference in the direct determination of arsenic in urine by electrothermal atomic absorption spectrometry, 334 (1996) 177

# Phosphatidylcholine

Determination of choline-containing phospholipids in serum with a fiber-optic biosensor, 374 (1998) 19

# Phosphatidylethanolamine

Negative ion liquid secondary ion mass spectrometry and tandem mass spectrometric analysis of the molecular species of aminophospholipids as 9-fluorenylmethyloxycarbonyl derivatives, 326 (1996) 127

### Phosphatidylserine

Negative ion liquid secondary ion mass spectrometry and tandem mass spectrometric analysis of the molecular species of aminophospholipids as 9-fluorenylmethyloxycarbonyl derivatives, 326 (1996) 127

# Phosphin 3R

Determination of nucleic acids using phosphin 3R as a fluorescence probe, 394 (1999) 177

# Phosphine oxide

Plutonium(III)-ion selective electrode of liquid membrane type using multidentate phosphine oxide ionophore, 387 (1999) 181

# Phosphoantimonylmolybdic acid

Interference from chromate, germanate, tungstate and vanadate when determining phosphate in aqueous solution by the phosphoantimonylmolybdenum blue method, 358 (1998) 245

### Phosphoantimonylmolybdic acid method

Determination of phosphorus in aqueous solution via formation of the phosphoantimonylmolybdenum blue complex Re-examination of optimum conditions for the analysis of phosphate, 302 (1995) 69

# Phosphocreatine

Determination of creatine kinase activity and phosphocreatine in off-line and on-line modes with capillary electrophoresis, 375 (1998) 233

# Phosphodiesterase I

Inhibition behavior of acid phosphatase, phosphodiesterase I and adenosine deaminase as tools for trace metal analysis and speciation, 360 (1998) 101

### Phospholipase D

A spectrophotometric assay for phospholipase D, 304 (1995) 249

A microplate technique for phospholipase D activity determination, 315 (1995) 109

# Phospholipid derivatives

Negative ion liquid secondary ion mass spectrometry and tandem mass spectrometric analysis of the molecular species of aminophospholipids as 9-fluorenylmethyloxycarbonyl derivatives, 326 (1996) 127

### Phospholipid model membranes

Analysis of the perturbation of phospholipid model membranes by a multiple antigenic peptide, 303 (1995) 57

### **Phospholipids**

Interaction of long-chain choline derivatives with firefly luciferase and their use as reagents for the extraction of intracellular ATP from microorganisms, 303 (1995) 85

Development of a chemical vapor sensor using piezoelectric quartz crystals with coated unusual lipids, 340 (1997) 41

Highly sensitive trilayer piezoelectric odor sensor, 387 (1999)

### Phosphomolybdate

Potentiometric membrane sensors for the selective determination of cinnarizine in pharmaceutical preparations, 321 (1996) 47

#### **Phosphonates**

Determination of phosphorus in turbid waters using alkaline potassium peroxodisulphate digestion, 315 (1995) 123

### Phosphopeptides

Estimation of calcium-binding constants of casein phosphopeptides by capillary zone electrophoresis, 372 (1998) 291

### Phosphor

Development of a vacuum ultraviolet laser source and its application to the evaluation of phosphor materials for a plasma display panel, 389 (1999) 69

# Phosphorescence

Porphyrin-doped sol-gel glass as a probe for oxygen sensing, 342 (1997) 181

Solid-matrix luminescence analysis: photophysics, physicochemical interactions and applications, 351 (1997) 1

Phosphorescence imaging system using an acousto-optic filterbased charge coupled device, 351 (1997) 229

Room-temperature phosphorescence of acenaphthene in aerated solutions in the presence of bromoalcohols and γ-cyclodextrin, 370 (1998) 199

Rapid screening method for cocaine and benzoylecgonine in saliva samples, 372 (1998) 349

Optical sensing of sulfite with a phosphorescent probe, 374 (1998) 1

### Phosphorescence emission

Room temperature phosphorescence emission in fully aqueous medium induced by injection of hot electrons into an electrolyte solution, 355 (1997) 1

### Phosphorescence imaging

Phosphorescence imaging system using an acousto-optic tunable filter and a charge-coupled device, 346 (1997) 361

### Phosphoric acid

Evaluation of trifluoroacetic acid as an ion-pair reagent in the separation of small ionizable molecules by reversed-phase liquid chromatography, 399 (1999) 249

# Phosphorimetry

Solid surface room temperature phosphorimetry analysis of yohimbine hydrochloride in pharmaceutical formulations, 309 (1995) 345

Studies with solid-state phosphorescent coatings on their sensitivity to nitrogen oxides, 310 (1995) 233

Room temperature phosphorescence properties of dansyl chloride and its derivatives, 312 (1995) 345

Experimental design applied to a room-temperature phosphorimetric method for the determination of acenaphthene in a microemulsion, 318 (1996) 357

Sensitized room temperature phosphorescence of biacetyl in AOT reversed micelles-dodecylammonium α-naphthylacetate as energy donor, 319 (1996) 231

Solid surface room temperature phosphorescence of tetracycline antibiotics, 319 (1996) 239

Room temperature phosphorescence of palladium(II)-coproporphyrin III complex in a precipitated nonionic surfactant micelle phase: determination of traces of palladium(II), 320 (1996) 133

Solid-substrate and micellar-stabilized room temperature phosphorescence of two anilinonaphthalenesulfonates, 322 (1996) 91

Infrared study of the interactions of moisture with filter paper and the moisture quenching of solid-matrix room temperature phosphorescence, 324 (1996) 61

Application of variable-angle synchronous phosphorimetry in a microemulsion medium for the simultaneous determination of three polyaromatic hydrocarbons, 329 (1996) 165

Phosphorescence imaging system using an acousto-optic tunable filter and a charge-coupled device, 346 (1997) 361

Simultaneous microemulsion room temperature phosphorimetric determination of five polycyclic aromatic hydrocarbons by variable-angle synchronous scanning, 353 (1997) 337

Phosphorimetric determination of nafronyl in pharmaceutical preparations, 382 (1999) 77

Determination of trace levels of polychlorinated biphenyls on reversed phase octadecyl bonded silica membranes, 386 (1999) 271

# Phosphororganic pesticides

Multi-enzymatic electrochemical sensor: field measurements and their optimisation, 385 (1999) 461

# Phosphorus

Determination of phosphorus in aqueous solution via formation of the phosphoantimonylmolybdenum blue complex Re-examination of optimum conditions for the analysis of phosphate, 302 (1995) 69

Determination of phosphorus in dairy products by sample wet digestion in a microwave oven, 309 (1995) 355

Determination of phosphorus in turbid waters using alkaline potassium peroxodisulphate digestion, 315 (1995) 123

Use of immobilized 3-phytase and flow injection for the determination of phosphorus species in natural waters, 316 (1995) 277

Sequential analyte removal in flow analysis: determination of nitrogen, phosphorus and potassium in fertilizers, 317 (1995) 239

Model compounds for the determination of organic and total phosphorus dissolved in natural waters, 318 (1996) 385

Determination of total phosphorus in waters and wastewaters by online UV/thermal induced digestion and flow injection analysis, 326 (1996) 29

# Phosphorus compounds

Procedures for the storage and digestion of natural waters for the determination of filterable reactive phosphorus, total filterable phosphorus and total phosphorus, 375 (1998) 5

### Phosphorus determination

Sample preparation in sequential injection analysis. Spectrophotometric determination of total phosphorus in food samples, 371 (1998) 57

### Phosphoryl chloride

Determination of iron in high-purity phosphoryl chloride by electrothermal atomization atomic absorption spectrometry, 304 (1995) 237

# Phosphoryl containing podands

Influence of lipophilic anionic compounds on the selectivity of ionselective electrodes based on podands with phosphoryl complexing groups, 385 (1999) 125

# Phosphoserine

Serum stability of phosphopeptides, 352 (1997) 319

### Phosphothreonine

Serum stability of phosphopeptides, 352 (1997) 319

### Photoacoustic spectrometry

Application of photoacoustic spectrometry to flow-injection analysis, 308 (1995) 20

### Photo-catalysis

The use of titanium dioxide as a photo-catalyst to improve the sensitivity of post-column photolysis-electrochemical detection for microbore liquid chromatography, 356 (1997) 177

# Photochemical

Photochemical-fluorimetric determination of folic acid in a multicommutated flow system, 351 (1997) 223

### Photochemical derivatization

Determination of reserpine by in situ sensitized photochemical spectrofluorimetry, 302 (1995) 207

### Photochemical fluorescence probe

Determination of DNA using sodium 9,10-anthraquinone-2-sulfonate as an in situ photochemical fluorescence probe, 340 (1997)

### Photochemical reaction

Flow-injection spectrophotometric determination of citric acid in beverages based on a photochemical reaction, 366 (1998) 231

#### Photochemically induced fluorescence

Cyclodextrin-enhanced fluorescence and photochemically-induced fluorescence determination of five aromatic pesticides in water, 360 (1998) 129

Photochemical-fluorimetric method for the determination of the insecticide imidacloprid in water samples, 371 (1998) 247

Sensitive and rapid flow injection analysis of sulfonylurea herbicides in water with micellar-enhanced photochemically induced fluorescence detection, 392 (1999) 255

### Photochemistry

Novel photochemical voltammetric method for the determination of traces of iron in tea, 354 (1997) 359

### Photocurable membranes

Polyurethane-acrylate photocurable polymeric membrane for ionsensitive field-effect transistor based urea biosensors, 389 (1999) 179

#### Photocured membrane

Photocured polymers in ion-selective electrode membranes. Part 5: Photopolymerised sodium sensitive ion-selective electrodes for flow injection potentiometry, 334 (1996) 133

Photocured polymers in ion-selective electrode membranes Part 6: Photopolymerized lithium sensitive ion-selective electrodes for flow injection potentiometry, 335 (1996) 111

### Photodiode

Highly sensitive chemiluminescence flow injection analysis system using microbial peroxidase and a photodiode detector, 329 (1996) 127

# Photodiode array spectrophotometry

Novel application and comparison of multivariate calibration for the simultaneous determination of Cu, Zn and Mn at trace levels using flow injection diode array spectrophotometry, 398 (1999)

# Photographic developers

Zucchini crude extract-palladium-modified carbon paste electrode for the determination of hydroquinone in photographic developers, 398 (1999) 145

# Photoinduced dimerization

Photoinduced dimerization of thymine in microemulsion for UVB radiation exposure measurements, 318 (1995) 103

# Photo-induced reduction

Photo-induced reduction of nitrate to nitrite and its application to the sensitive determination of nitrate in natural waters, 308 (1995) 406

### Photoisomerization

Light-independent isomerization of bacteriochlorophyll g to chlorophyll a catalyzed by weak acid in vitro, 365 (1998) 199

### Photometric detection

Determination of sulphite in wines by gas-diffusion flow injection analysis utilizing spectrophotometric pH-detection, 337 (1997) 125

#### Photometry

Microplate photometric determination of aldehydes in disinfectant solutions, 351 (1997) 247

Simultaneous kinetic determination of butylated hydroxyanisole and propyl gallate by coupling stopped-flow mixing technique and diode-array detection, 354 (1997) 173

Determination of oxidic impurities in some lead halides, 355 (1997) 171

A compact titration configuration for process analytical applications, 378 (1999) 211

Sequential determination of total and volatile acidity in wines based on a flow injection-pervaporation approach, 381 (1999) 23

#### Photon

Determination of glucose based on the effect of photons as a substitute for glucose oxidase, 388 (1999) 11

### Photon correlation spectroscopy

Measurement of electrokinetic and size characteristics of estuarine colloids by dynamic light scattering spectroscopy, 331 (1996) 1

### Photon time-of-flight distributions

Quantitative constituent measurements in scattering media from statistical analysis of photon time-of-flight distributions, 348 (1997) 543

### Photooxidation

Flow-injection chemiluminometric determination of ascorbic acid based on its sensitized photooxidation, 308 (1995) 299

Measurement of dissolved total nitrogen in wastewater by UV photooxidation with peroxodisulphate, 389 (1999) 267

Acidic and non-acidic products from the photo-oxidation of the crude oil component dibenzothiophene dissolved in seawater, 392 (1999) 19

# Photopolymerizable membrane

Use of photopolymerizable membranes based on polyacrylamide hydrogels for enzymatic microsensor construction, 351 (1997) 169

Development of a new photopolymerizable membrane for monochloroacetate sensitive potentiometric sensors, 386 (1999) 13

### **Photoreactors**

Flow-injection biamperometric determination of nitrate (by photoreduction) and nitrite with the NO<sub>2</sub> /I<sup>-</sup> reaction, 366 (1998) 241

# Photosynthesis

Successfully controlled isomerization and pheophytinization of bacteriochlorophyll b by weak acid in the dark in vitro, 361 (1998) 285

Light-independent isomerization of bacteriochlorophyll g to chlorophyll a catalyzed by weak acid in vitro, 365 (1998) 199

# Photosynthesis inhibiting herbicides

Thylakoid membranes-based test-system for detecting of trace quantities of the photosynthesis-inhibiting herbicides in drinking water, 391 (1999) 1 D1 protein – an effective substitute for immunoglobulins in ELISA for the detection of photosynthesis inhibiting herbicides, 398 (1999) 49

### Photothermal spectroscopy

Sources of errors in the use of calorimetric references for photothermal spectroscopic methods, 334 (1996) 337

Near field thermal lens detector for gradient elution liquid chromatography, 353 (1997) 207

### Phototrophic anaerobic bacteria

A method of repeated sampling of static headspace above anaerobic bacterial cultures with fluorine-induced chemiluminescence detection, 303 (1995) 91

# pH-response of ISFET

Correlation between the electrical charge properties of polymeric membranes and the characteristics of ion field effect transistors or penicillinase based enzymatic field effect transistors, 331 (1996) 217

#### pH-sensitive field effect transistors

β-Lactamase label-based potentiometric biosensor for α-2 interferon detection, 390 (1999) 73

### Phthalocyanine

Use of cobalt(II) phthalocyanine to improve the sensitivity and stability of glassy carbon electrodes for the detection of cresols, chlorophenols and phenol, 354 (1997) 307

### Phycocyanin

Quantitative determination of cyanobacteria in mixed phytoplankton assemblages by an in vivo fluorimetric method, 302 (1995) 81

Rapid method for assay of quantitative binding of soluble proteins and photosynthetic membrane proteins on poly(vinylidene difluoride) membranes, 365 (1998) 109

# p-hydroxyphenylpropionic acid

Evaluation of the adsorptive immobilisation of horseradish peroxidase on PTFE tubing in flow systems for hydrogen peroxide determination using fluorescence detection, 359 (1998) 149

# Physical dispersion

Integrated conductimetric detection: mass distribution in a dynamic sample zone inside a flow injection manifold, 379 (1999) 99

# Physical modeling

Modeling energy transfer in a focused microwave digestor, 318 (1996) 261

### Physiologic correlates

Application of reverse microdialysis in the evaluation of neural regulation of cardiovascular functions, 379 (1999) 275

# Physiological measurements

Sedative effect on humans of inhalation of essential oil of linalool: . Sensory evaluation and physiological measurements using optically active linalools, 365 (1998) 293

# 3-Phytase

Use of immobilized 3-phytase and flow injection for the determination of phosphorus species in natural waters, 316 (1995) 277

# Phytic acid

Use of immobilized 3-phytase and flow injection for the determination of phosphorus species in natural waters, 316 (1995) 277

### Phytic acid determination

Indirect determination of phytic acid in urine, 367 (1998) 63

### **Phytochelatins**

Determination of phytochelatins by cathodic stripping voltammetry in the presence of copper(II), 319 (1996) 13

Biochemical speciation analysis by hyphenated techniques, 400 (1999) 321

### pH-zone-refining countercurrent chromatography

Recent advances in peptide separation by countercurrent chromatography, 352 (1997) 411

### Picrate

Ultramicroelectrode study without deliberately added electrolyte: application to the analysis of liquid-liquid extraction processes in dichloromethane, 305 (1995) 137

Construction and use of a tubular picrate ion-selective electrode for reducing sugar determination in Port wine by flow-injection analysis, 308 (1995) 122

### Picric acid

A reusable optical sensing layer for picric acid based on the luminescence quenching of the Eu-thenoyltrifluoroacetone complex, 318 (1996) 175

### Piezoelectric biosensor

Improved direct piezoelectric biosensors operating in liquid solution for the competitive label-free immunoassay of 2,4-dichlorophenoxyacetic acid, 347 (1997) 43

# Piezoelectric crystal detector

Piezoelectric cryptand-coated quartz crystal liquid chromatographic detector for cations/anions and polar organic molecules in solutions, 392 (1999) 125

# Piezoelectric crystals

The utilisation of a piezoelectric quartz crystal for measuring carbon dioxide in wine, 327 (1996) 95

Preparation and application of cryptand-coated piezoelectric crystal gas-chromatographic detector, 360 (1998) 61

Application of piezoelectric Ru(III)/cryptand-coated quartz crystal gas chromatographic detector for olefins, 380 (1999) 55

### Piezoelectric immunosensor

A direct immunoassay for schistosoma japonium antibody (SjAb) in serum by piezoelectric body acoustic wave sensor, 398 (1999) 57

# Piezoelectric quartz crystal array

Simultaneous immunoassay using piezoelectric immunosensor array and robust method, 336 (1996) 185

### Piezoelectric quartz crystals

The utilisation of a piezoelectric quartz crystal for measuring carbon dioxide in wine, 327 (1996) 95

Detection of mutagenic polycyclic compounds using a piezoelectric quartz crystal coated with plasma-polymerized phthalocyanine derivatives, 337 (1997) 1

Development of a chemical vapor sensor using piezoelectric quartz crystals with coated unusual lipids, 340 (1997) 41

Correction for the effects of viscoelastic changes in a piezoelectric quartz crystal by the multiple linear regression method, 343 (1997) 85

Monitor of antibodies in human saliva using a piezoelectric quartz crystal biosensor, 365 (1998) 147

Adsorptive determination of copper(II) in solution as an ion-pair of bisneocuproinecopper(I) and dodecylsulfate ions on an electrode-separated piezoelectric quartz crystal, 374 (1998) 291

Determination of components in biological media by ion chromatography with series bulk acoustic wave detection, 378 (1999) 95 Highly sensitive trilayer piezoelectric odor sensor, 387 (1999) 39 Multicomponent gas analysis of a mixture of chloroform, octane and

dulticomponent gas analysis of a mixture of chloroform, octane and toluene using a piezoelectric quartz crystal sensor array, 393 (1999) 67

### Piezoelectric quartz crystal sensor

Detection of lipopolysaccharide binding peptides by the use of a lipopolysaccharide-coated piezoelectric crystal biosensor, 340 (1997) 49

### Piezoelectric quartz resonator

Response of a thickness-shear mode quartz crystal resonator upon hydrogel formation, 351 (1997) 177

### Piezoelectric sensor array

Application of principal component analysis for the characterisation of a piezoelectric sensors array, 367 (1998) 135

# Piezoelectric sensors

Detection of polar organic vapours with piezoelectric crystals coated with crown ethers, 306 (1995) 129

A piezoelectric immunosensor for hepatitis viruses, 309 (1995) 19 Evaluation of methods to minimize effects of liquid viscosity and density on the oscillating frequencies of thickness-shear-mode (TSM) piezoelectric resonators, 312 (1995) 217

Rapid detection of /-glutamic acid using a series-electrode piezoelectric quartz crystal sensor, 313 (1995) 229

Studies on polymer solutions, gels and grafted layers using the quartz crystal microbalance technique, 314 (1995) 23

Surface morphology and the response of piezoelectric gas sensors, 315 (1995) 83

Toward development of a humidity correction algorithm for surface acoustic wave sensors Part 3. Water, nitrobenzene and 2-nitro-toluene adsorption on platinum/lead coated piezoelectric sensors, 317 (1995) 281

Sensitivity of modified bulk acoustic waves for the detection of phenols in the vapour phase, 318 (1995) 77

Detection of the red tide-causing plankton Chattonella marina using a piezoelectric immunosensor, 325 (1996) 73

A quartz crystal microbalance displacement assay for Listeria monocytogenes, 325 (1996) 169 Performance of a tetramethylammonium fluoride tetrahydrate coated piezoelectric crystal for carbon dioxide detection, 335 (1996) 235

Oscillation condition for a series piezoelectric sensor. Application to the determination of urease activity in plant seeds, 340 (1997) 55

Adsorptive determination of copper(II) in solution as its N,Ndiethyldithiocarbamate on an electrode-separated piezoelectric quartz crystal, 343 (1997) 209

Detection of olefin vapours with silver(I)/cryptand-coated piezoelectric crystal sensors, 350 (1997) 109

Flow injection immunosensing of polycyclic aromatic hydrocarbons with a quartz crystal microbalance, 387 (1999) 29

# Pindolol

A multicommutated flow system with on-line compensation of the Schlieren effect applied to the spectrophotometric determination of pindolol, 366 (1998) 209

#### PIPES

Electrochemical study of proton ionisation, copper(II) complexation and surfactant properties of piperazine-N-N'-bis[2-hydroxypropanesulfonic acid] pH buffer . Comparison with other N-substituted aminosulfonic acids pH buffers, 369 (1998) 115

#### Piretanide

Electrochemical determination of the loop diuretics piretanide and furosemide in pharmaceutical formulations and urine, 305 (1995) 332

# Pituitary adenylate cyclase activating polypeptide 38 (PACAP38)

Bioluminescent enzyme immunoassay for pituitary adenylate cyclase activating polypeptide 38 (PACAP38), 382 (1999) 245

### PIXE

Increased sensitivity in thick-target particle induced X-ray emission analyses using dry ashing for preconcentration, 378 (1999) 273

# $pK_n$

Dissociation constants of several non-steroidal anti-inflammatory drugs in isopropyl alcohol/water mixtures, 350 (1997) 249

# $pK_a$ values

Dissociation constants of neutral and charged acids in methyl alcohol. The acid strength resolution, 374 (1998) 309

Chromatographic behavior of ionizable compounds in liquid chromatography. Part 2. Standardization of potentiometric sensors and effect of pH and ionic strength on the retention of analytes using acetonitrile-water mobile phases, 389 (1999) 43

# Plackett-Burman design

Strategy for ruggedness tests in chromatographic method validation, 391 (1999) 187

# Planetary atmospheres

Evaluation of transition metal complexes of aminopropylsilyldithiooxamide bonded phases for gas chromatography, 341 (1997) 35

Analyzing time varying flow composition using multiple input chromatography, 348 (1997) 203

# Plant analysis

Multicommutation in flow analysis. Part 5: Binary sampling for sequential spectrophotometric determination of ammonium and phosphate in plant digests, 334 (1996) 287

Multicommutation in flow analysis. Part 6. Binary sampling for wide concentration range turbidimetric determination of sulphate in plant digests, 366 (1998) 251

A polyvalent flow injection system for multielemental spectrophotometric analysis of plant materials, 370 (1998) 39

#### Plant extracts

Determination of Zeatin in plant extracts by square wave stripping polarography and differential pulse stripping polarography, 315 (1995) 33

# Plant materials

Comparison of two digestion methods for elemental determinations in plant material by ICP techniques, 378 (1999) 191

Increased sensitivity in thick-target particle induced X-ray emission analyses using dry ashing for preconcentration, 378 (1999) 273

# Plant samples

X-Ray fluorescence analysis utilizing the fundamental parameter method for the determination of the elemental composition in plant samples, 307 (1995) 117

Critical discussion on the need for an efficient mineralization procedure for the analysis of plant material by atomic spectrometric methods, 358 (1998) 85

Determination of Ge, As, Se, Cd and Pb in plant materials by slurry sampling-electrothermal vaporization-inductively coupled plasma-mass spectrometry, 372 (1998) 365

# Plant steroid hormone

Synthesis of castasterone selective polymers prepared by molecular imprinting, 365 (1998) 75

## Plant tissue based sensor

Plant tissue-based fiber-optic pyruvate sensor, 316 (1995) 57

# Plant tissue electrode

Plant tissue electrode for the determination of atrazine, 316 (1995)

# Plant tissue extracts

Simultaneous determination of aliphatic and aromatic acids in plant tissue extracts by ion-exclusion chromatography, 386 (1999) 249

# Plant tissues

Hybrid tissue/enzyme biosensor for pectin, 306 (1995) 123

A microplate technique for phospholipase D activity determination, 315 (1995) 109

Microwave dissolution of plant tissue and the subsequent determination of trace lanthanide and actinide elements by inductively coupled plasma-mass spectrometry, 322 (1996) 11

Determination of flavanols in beers with tissue biosensors, 347 (1997) 281

Coconut-based plant tissue reactor for biosensing of catechol in flow injection analysis, 354 (1997) 325

#### Plant wastes

Determination of small amounts of palladium in wastes from reworking of spent catalysts by microwave induced plasma atomic emission spectrometry, 317 (1995) 365

#### Plants

Extraction as a method for preparation of vegetable samples for the determination of trace metals by atomic absorption spectrometry, 330 (1996) 251

Microwave-assisted pre-treatment of environmental samples for the determination of 90 Sr, 379 (1999) 135

### Plant-tissue electrodes

A reagentless amperometric biosensor for hydrogen peroxide determination based on asparagus tissue and ferrocene mediation, 309 (1995) 35

### Plaque

Evaluation of ticlopidine in human serum and plaque by liquid chromatography/atmospheric pressure chemical ionization mass spectrometry, 354 (1997) 87

#### Plasma

Comparison of chemiluminescent and chromogenic substrates of alkaline phosphatase in a direct immunoassay for plasma estradiol, 303 (1995) 143

Minimization of plasma interferences by liquid chromatography with electrochemical detection after ultraviolet irradiation using chlordiazepoxide as a model substance, 305 (1995) 318

Effect of oxygen addition to an argon glow-discharge plasma source in atomic emission spectrometry, 306 (1995) 193

Determination of betamethasone and dexamethasone in plasma by fluorogenic derivatization and liquid chromatography, 307 (1995) 103

Determination of branched-chain \( \ell\)-amino acids by flow-injection analysis with co-immobilized leucine dehydrogenase/NADH oxidase and chemiluminescence detection, 311 (1995) 71

Determination of copper in human plasma by stripping potentiometry on a mercury film electrode in ethylenediamine medium, 315 (1995) 69

Determination of fat-soluble vitamins by capillary liquid chromatography in bovine blood plasma, 315 (1995) 177

Voltammetric determination of boron in plasma using Beryllon(III) as a ligand, 318 (1996) 303

Detection of fluorine emission lines from Grimm-type glow-discharge plasmas - use of neon as the plasma gas, 324 (1996) 147

Light scattering-based determination of fibrinogen in human plasma using an automated continuous system, 327 (1996) 101

Development of a sensitive radioimmunoassay for the potential antimigraine drug GR151004: including cross-validation to liquid chromatography-mass spectrometry-mass spectrometry and application to pharmacokinetic studies, 334 (1996) 225

Diode laser induced near infra-red fluorescence detection for highperformance liquid chromatography analysis of indocyanine green in plasma, 342 (1997) 145

Highly sensitive flow-injection determination of glucose in plasma using an immobilized pyranose oxidase and a chemiluminometric peroxidase sensor, 354 (1997) 205 Enzyme-linked immunosorbent assay for plasma 24,25-dihydroxyvitamin D<sub>3</sub>, 365 (1998) 151

Derivatization of alcohols using acridone-9-N-acetyl-benzene-disulfonate as a condensation agent and its application for the determination of volatile alcohols in human plasma by liquid chromatography with fluorescence detection, 391 (1999) 43

# Plasma atomic emission detection

Evaluation of derivatization techniques for the analysis of organotin compounds in biological tissue, 338 (1997) 51

#### Plasma level

Development of an enzyme-linked immunosorbent assay (ELISA) for antitumor agent MKT 077, 362 (1998) 177

#### Plasma process

Functionalization of nitrocellulose membranes using ammonia plasma for the covalent attachment of antibodies for use in membrane-based immunoassays, 376 (1998) 133

#### Plasma proteins

Electrophoretic analyses of clotting factor VIII concentrates, 372 (1998) 219

# Plasma spectroscopy

Characterization of colloidal particles by laser-induced plasma spectroscopy (LIPS), 346 (1997) 23

On-line and in-situ detection of lead aerosols by plasma-spectroscopy and laser-excited atomic fluorescence spectroscopy, 346 (1997) 37

# Plasma-deposited film

Thickness-shear-mode acoustic-wave sensor based on n-butylamine plasma-deposition film for detection of carboxylic acid vapours, 384 (1999) 37

### Plasma-polymerized phthalocyanine derivatives

Detection of mutagenic polycyclic compounds using a piezoelectric quartz crystal coated with plasma-polymerized phthalocyanine derivatives, 337 (1997) 1

# Plastic recycling products

Analysis of plastic recycling products by expert systems, 312 (1995) 231

### Plasticised PVC membrane

Development of a new ion-selective field-effect transistor sensor for anionic surfactants: Application to potentiometric titrations, 382 (1999) 157

# **Plasticisers**

Methacrylate-acrylate based polymers of low plasticiser content for potassium ion-selective membranes, 324 (1996) 47

New polar plasticizers for luminescence-based sensors, 337 (1997) 201

Paraquat sensors containing membrane components of high lipophilicities, 338 (1997) 89

Mathematical model for the migration of plasticisers from food contact materials into solid food, 347 (1997) 249

### Plasticizer-free

Plasticizer-free all-solid-state potassium-selective electrode based on poly(3-octylthiophene) and valinomycin, 385 (1999) 195

### Plastics recycling

Comparison of an adaptive resonance theory based neural network (ART-2a) against other classifiers for rapid sorting of post consumer plastics by remote near-infrared spectroscopic sensing using an InGaAs diode array, 317 (1995) 1

# Platelet adhesion

Adhesion of human platelets to collagen detected by <sup>51</sup>Cr labelling and acoustic wave sensor, 342 (1997) 23

# Platinised glassy carbon

Immobilisation of enzyme throughout a polytyramine matrix: a versatile procedure for fabricating biosensors, 394 (1999) 211

#### Platinization

Sensitive catecholamine measurement using a monoenzymatic recycling system, 368 (1998) 233

#### Platinum

Iodometric determination of gold and platinum by 168- and 126-fold chemical amplification reactions, 307 (1995) 139

Simultaneous determination of chloride complexes of Pt(IV) and Pd(II) by capillary zone electrophoresis with direct UV absorbance detection, 319 (1996) 191

Evaluation of a flow injection system combined with an inductively coupled plasma mass spectrometer with thermospray nebulization for the determination of trace levels of platinum, 320 (1996)

Stripping voltammetry at preplated mercury coated microelectrodes in flowing solutions, 325 (1996) 11

Stability of preplated mercury coated platinum and carbon fibre microelectrodes, 327 (1996) 211

Determination of platinum and gold in anticancer and antiarthritic drugs and metabolites, 334 (1996) 5

Preconcentration and separation of palladium(II) and platinum(IV) on a dithizone anchored poly(vinylpyridine)-based chelating resin, 341 (1997) 217

Voltammetric determination of trace platinum in gasoline after Wickbold combustion, 350 (1997) 135

Analytical problems in the determination of platinum-group metals in urine by quadrupole and magnetic sector field inductively coupled plasma mass spectrometry, 363 (1998) 1

An integrated three-electrode system with a micromachined liquidjunction Ag/AgCl reference electrode, 387 (1999) 103

Investigation of metallodrug-protein interactions by size-exclusion chromatography coupled with inductively coupled plasma mass spectrometry (ICP-MS), 387 (1999) 135

### Platinum black

Al<sub>2</sub>O<sub>3</sub> sol-gel derived amperometric biosensor for glucose, 392 (1999) 135

# Platinum complexes

Studies of platinum(II) compounds in aqueous solution. Part 3. The study of some reactions of K<sub>2</sub>[PtCl<sub>4</sub>] and K[Pt(NH<sub>3</sub>)Cl<sub>3</sub>], 371 (1998) 279

#### Platinum determination

Platinum determination by instrumental neutron activation analysis with special reference to the spectral interference of Sc-47 on the platinum indicator nuclide Au-199, 360 (1998) 243

# Platinum electrode

Electrochemical studies of ethamivan at glassy-carbon and platinum electrodes and its determination in urine by differential pulse voltammetry, 336 (1996) 85

Limitations of the use of the electrochemical quartz crystal microbalance in stripping analysis of lead(II) and cadmium(II) on a quartz crystal platinum electrode with a thin mercury film, 368 (1998) 191

Accelerated measurement of groundwater redox potentials: method and application, 396 (1999) 23

# Platinum group elements

Chemical speciation study of platinum group elements in geological samples by stepwise dissolution and inductively coupled plasma mass spectrometry, 374 (1998) 93

# Platinum group metals

Analytical characterization of supramolecular species – determination of ruthenium and osmium in dendrimers by electrothermal atomic absorption spectrometry, 375 (1998) 285

#### Platinum metals

Determination of low levels of platinum group metals: new solutions, 334 (1996) 167

# Platinum octaethylporphyrin

Porphyrin-doped sol-gel glass as a probe for oxygen sensing, 342 (1997) 181

# Platinum ores

Preconcentration and matrix separation of precious metals in geological and related materials using metalfix-chelamine resin prior to inductively coupled plasma mass spectrometry, 340 (1997) 31

# Platinum(II) complexes

Studies of platinum(II) compounds in aqueous solution. Part 1. K<sub>2</sub>PtCl<sub>4</sub>, 350 (1997) 203

Studies of platinum(II) compounds in aqueous solution. Part 2. cis-Pt(NH<sub>3</sub>)<sub>2</sub>Cl<sub>2</sub>, 358 (1998) 61

# Platinum(IV) complexes

Thin layer chromatographic and electrophoretic study of mixed chloro-thiocyanato and chloro-selenocyanato complexes of platinum(IV), 391 (1999) 315

# Platinum-coated graphite tube

Determination of Hg and Bi by electrothermal vaporization inductively coupled plasma mass spectrometry using vapor generation with in situ preconcentration in a platinum-coated graphite furnace, 353 (1997) 173

# Platinum-palladium alloy

Electrocatalysis and amperometric detection of aliphatic aldehydes at platinum-palladium alloy coated glassy carbon electrode, 330 (1996) 151

#### PLS

Classical versus multivariate calibration for a beta emitter (<sup>14</sup>C) activity determination by liquid scintillation counting, 331 (1996) 33

Simultaneous immunoassay using piezoelectric immunosensor array and robust method, 336 (1996) 185

Resolution of overlapping peaks in HPLC with diode array detection by application of partial least squares calibration to cross-sections of spectrochromatograms, 348 (1997) 177

Diffuse reflectance absorbance spectroscopy taking in chemometrics (DRASTIC). A hyperspectral FT-IR-based approach to rapid screening for metabolite overproduction, 348 (1997) 273

Discrimination of the variety and region of origin of extra virgin olive oils using <sup>13</sup>C NMR and multivariate calibration with variable reduction, 348 (1997) 357

Correction of non-linearities in spectroscopic multivariate calibration by using transformed original variables and PLS regression, 349 (1997) 271

Partial least squares method in the analysis by square wave voltammetry. Simultaneous determination of sulphamethoxypyridazine and trimethoprim, 349 (1997) 303

Improved variable selection procedure for multivariate linear regression, 354 (1997) 225

Measurement of glucose and other analytes in undiluted human serum with near-infrared transmission spectroscopy, 371 (1998) 255

Application and comparisons of chemometric techniques for calibration modelling using electrochemical/ICP-MS data for trace elements in UHQ water and humic acid matrices, 378 (1999) 235

Determination of a mixture of gamma-emitting radionuclides using solid scintillation detectors and multivariate calibration, 379 (1999) 121

Matrix effect modelling in multivariate determination of priority pollutant chlorophenols in urine samples, 381 (1999) 93

Selection of variables for interpreting multivariate gas sensor data, 381 (1999) 221

Application of IR spectroscopy and multivariate calibration to monitor the fusion synthesis of Ca- and Ca/Mg-resinates, 391 (1999) 269

Multivariate data analysis of key pollutants in sewage samples: a case study, 393 (1999) 181

Chemometrics: the issues of measurement and modelling, 400 (1999) 399

### PLS2

Classification of pyrolysis mass spectra by fuzzy multivariate rule induction-comparison with regression, K-nearest neighbour, neural and decision-tree methods, 348 (1997) 389

### PLS-1 algorithm

Spectrophotometric determination of Allura Red (R40) in soft drink powders using the universal calibration matrix for partial least squares multivariate method, 330 (1996) 19

### PLS calibration

Simultaneous monitoring of aspirin, phenacetin and caffeine in compound aspirin tablets using a sequential injection drugdissolution testing system with partial least squares calibration, 392 (1999) 273

Real time quantitation of a chemical reaction by fiber optic nearinfrared spectroscopy, 395 (1999) 335

# Plutonium

Simultaneous determination of plutonium alpha emitters by liquid scintillation counting using multivariate calibration, 310 (1995)

Determination of mixtures of alpha emitting isotopes (<sup>242</sup>Pu, <sup>239+240</sup>Pu, <sup>238</sup>Pu) by using liquid scintillation-moving curve fitting, 380 (1999) 83

# Plutonium(III)

Plutonium(III)-ion selective electrode of liquid membrane type using multidentate phosphine oxide ionophore, 387 (1999) 181

### 4-(p-nitrobenzyl)pyridine

A colorimetric assay suitable for screening epoxide hydrolase activity, 391 (1999) 345

### p-nitro-cis-1

4,4'-Dinitrocarbanilide – hapten development utilizing molecular models, 376 (1998) 139

### p-nonylphenol

Liquid-liquid extraction of cationic metal complexes with p-nonylphenol solvent: Application to crown and thiacrown ether complexes of lead (II) and copper (II), 363 (1998) 165

### **Podands**

Silver(I) ion-selective transport across polymer inclusion membranes containing new pyridino- and bipyridino-podands, 373 (1998) 167

# Point mutation

Detection of point mutation in the p53 gene using a peptide nucleic acid biosensor, 344 (1997) 111

# Polar analytes

Reverse-micelle formation: a strategy for enhancing CO<sub>2</sub>-supercritical fluid extraction of polar analytes, 358 (1998) 1

### Polar and electronic effects

Study of the influence of N-benzylideneanilines conformation on retention in normal phase liquid chromatography, 356 (1997) 187

# Polar front

Dissolved iron at subnanomolar levels in the Southern Ocean as determined by ship-board analysis, 377 (1998) 113

# Polarimetry

Micro-interferometric backscatter detection using a diode laser, 400 (1999) 265

### Polarity

Solvatochromic studies of the surface polarity of silica under normal-phase conditions, 312 (1995) 127

### Polarity probes

Optical sensing of anions via polarity-sensitive dyes: a bulk sensor membrane for nitrate, 316 (1995) 239

Fluorescent potential-sensitive dyes for use in solid state sensors for potassium ion, 334 (1996) 125

# Polarity-sensitive dye

Detection of volatile organic compounds in the vapor phase using solvatochromic dye-doped polymers, 341 (1997) 53

# Polarizability

The development of a quantitative structure property relationship (QSPR) for the prediction of dielectric constants using neural networks, 384 (1999) 285

### Polarography

Influence of adsorption on calibration curves in normal pulse polarography, 305 (1995) 273

The electrochemical behaviour of Cd,Zn thioneins depending on the solution pH using differential pulse polarography, 305 (1995)

Quantitative structure-electrochemistry relationships of α,β-unsaturated ketones, 305 (1995) 295

Time resolved polarography. Study of the EC mechanism, 306 (1995) 107

Determination of germanium(IV) in sulphide ores by differential pulse polarography in pyrogallol-sulfuric acid media, 306 (1995) 243

Polarographic and voltammetric behaviour of ofloxacin and its analytical application, 307 (1995) 49

Investigations on intermediate acetal formation during polarographic estimation of certain benzaldehyde derivatives, 307 (1995) 55

Study of the enhancement of the boron-beryllon III system by anion surfactant using oscillopolarography, 309 (1995) 63

Adsorptive complex catalytic polarographic determination of germanium in soils and vegetables, 309 (1995) 103

The electrochemistry of monobutyltin and mixtures of butyltin compounds at mercury electrodes in aqueous media, 310 (1995) 109

Voltammetry of Pb(II), Cd(II) and Zn(II) ions in the presence of the sulphated polysaccharide λ-carrageenan, 310 (1995) 121

Pseudopolarographic determination of stability constants of labile zinc complexes in fresh water, 310 (1995) 131

Determination of Zeatin in plant extracts by square wave stripping polarography and differential pulse stripping polarography, 315 (1995) 33

Electrochemical investigations of reactive dyes; polarographic determination of anthraquinone-based chlorotriazine dyes, 315 (1995) 41

Knowledge-based system for the provision of an analytical strategy for simultaneous determination of metals by differential-pulse polarography, 316 (1995) 47

Determination of stability constants using genetic algorithms, 316 (1995) 347

Polarographic and voltammetric determination of selected triazinebased azo dyes with different reactive groups, 320 (1996) 31 Polarographic behaviour and determination of uranium(VI) in alcoholic solutions from organic extraction phases, 321 (1996) 201

Adsorptive pulse polarographic determination of uranium(VI) oxinate in chloroform and its use for the analysis of uranium mineral ores, 328 (1996) 33

Voltammetric behaviour of some nitropesticides at the mercury drop electrode, 329 (1996) 73

A polarographic method of speciation for labile metal-ligand systems based on mass-balance equations. A differential pulse polarographic study at fixed ligand to metal ratio and varied pH, 336 (1996) 23

Polarographic determination of yttrium based on reduction of its solochrome violet RS complexApplication to the analysis of the superconductor YBa<sub>2</sub>Cu<sub>3</sub>O<sub>3</sub>, 341 (1997) 91

Multivariate calibration transfer applied to the routine polarographic determination of copper, lead, cadmium and zinc, 348 (1997) 51

Characterisation of human metallothioneins from foetal liver and adult kidney using differential pulse polarography, 350 (1997) 305

Differential pulse polarographic determination of ceftazidime in urine samples with and without prior extraction, 351 (1997) 105

Electroanalytical study of salazosulfapyridine and biseptol components at the mercury electrode, 353 (1997) 61

Polarographic and voltammetric determination of Ostacetate Blue P3R, 356 (1997) 231

Polarographic and voltammetric determination of triazine-based reactive azo dyes with 4-carboxypyridyl and 1,4-diazabicy-clo[2,2,2]octanyl (DABCO) leaving groups, 362 (1998) 235

Electrochemical study of proton ionisation, copper(II) complexation and surfactant properties of piperazine-N-N'-bis[2-hydroxypropanesulfonic acid] pH buffer . Comparison with other N-substituted aminosulfonic acids pH buffers, 369 (1998) 115

Multivariate curve resolution analysis of voltammetric data obtained at different time windows: study of the system Cd<sup>2+</sup>-nitrilotriacetic acid, 371 (1998) 23

A differential pulse polarographic study of bismuth<sup>III</sup> complexes with macrocyclic ligands 1,4,7,10-tetraazacyclododecane and 1,4,7,10-tetrakis (2-hydroxypropyl)-1,4,7,10-tetraazacyclododecane. An out-of-cell determination of stability constants of polarographically active and inactive bismuth complexes at fixed ligand to metal ratio and various pH values, 372 (1998) 323

Qualitative and quantitative aspects of the application of genetic algorithm-based variable selection in polarography and stripping voltammetry, 378 (1999) 245

Preconcentration with membrane cell and adsorptive polarographic determination of cyanides in air, 382 (1999) 283

Zinc-binding properties of the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: analysis by differential pulse polarography and multivariate curve resolution, 385 (1999) 353

# Polarography determination

Polarographic determination of cisapride and cinitapride, 368 (1998) 175

### **Pollutants**

Application of pulsed laser methods to in situ probing of highway originated pollutants, 343 (1997) 93

DNA electrochemical biosensors for environmental monitoring. A review, 347 (1997) 1

Electrocatalysis of the oxidation of alcohol and phenol derivative pollutants at vitreous carbon electrode coated by nickel macrocyclic complex-based films, 378 (1999) 159

#### Pollution

Pollution of a river basin and its evolution with time studied by multivariate statistical analysis, 310 (1995) 15

#### Polonium-210

Magnetic recovery of radium, lead and polonium from seawater samples after preconcentration on a magnetic adsorbent of manganese dioxide coated magnetite, 328 (1996) 53

# Poly (p-vinylbenzoylacetone)

Determination of iron ion utilizing poly (p-vinylbenzoylacetone) modified micro-electrode, 369 (1998) 87

# Poly(acrylamide) gel

Correlation between the electrical charge properties of polymeric membranes and the characteristics of ion field effect transistors or penicillinase based enzymatic field effect transistors, 331 (1996) 217

# Poly(acrylic acid)

Potentiometric titration of poly(acrylic acid) in mixed counterion systems: Chemical binding of Cd ions, 369 (1998) 109

# Poly(1-aminoanthracene)

Hydrogen ion selective electrode based on poly(1-aminoanthracene) film, 377 (1998) 21

### Poly(carbamoyl)sulfonate hydrogel matrix

Hydrogel matrix for three enzyme entrapment in creatine/creatinine amperometric biosensing, 325 (1996) 161

# Poly(ethylene glycol dimethacrylate-hydroxyethyl methacrylate)

Determination of inorganic and organic mercury compounds by capillary gas chromatography coupled with atomic absorption spectrometry after preconcentration on dithizone-anchored poly(ethylene glycol dimethacrylate-hydroxyethylmethacrylate) microbeads, 371 (1998) 177

# Poly(ethylene glycol)

Glucose sensor based on carbon paste electrode incorporating poly(ethylene glycol)-modified glucose oxidase and various mediators, 304 (1995) 33

# Poly(glutamic acid) chemically modified electrode

Electrocatalytic oxidation and determination of ascorbic acid at poly(glutamic acid) chemically modified electrode, 344 (1997) 181

# Poly(methylene blue)

Poly(methylene blue) modified electrode sensor for haemoglobin, 385 (1999) 119

# Poly(methylene green)

The electrochemical polymerization of methylene green and its electrocatalysis for the oxidation of NADH, 329 (1996) 41

# Poly(N-methylpyrrole)

Detection of uric acid with a new type of conducting polymer-based enzymatic sensor by bipotentiostatic technique, 385 (1999) 187

### Poly(o-aminophenol)

Electrocatalytic detection of nicotinamide coenzymes by poly(oaminophenol) - and poly(o-phenylenediamine) -modified carbon paste electrodes, 325 (1996) 33

# Poly(a-methoxyaniline)

Fiber-optic pH sensor based on Poly(o-methoxyaniline), 353 (1997)

### Poly(o-phenylenediamine)

Electrocatalytic detection of nicotinamide coenzymes by poly(o-aminophenol) - and poly(o-phenylenediamine) -modified carbon paste electrodes, 325 (1996) 33

A bienzyme-poly-(o-phenylenediamine)-modified carbon paste electrode for the amperometric detection of ℓ-lactate, 346 (1997) 165

Poly(o-phenylenediamine) ultra-thin polymer-film composite membranes for enzyme electrodes, 357 (1997) 55

Electropolymerization of pyrrole and phenylenediamine over an organic conducting salt based amperometric sensor of increased selectivity for glucose determination, 385 (1999) 203

### Poly(paraphenylene vinylene)

An electrochemical quartz crystal microbalance study on growth of and ion transport in electrochemically polymerized poly(paraphenylene vinylene), 385 (1999) 175

# Poly(pyrogallol) film

Poly(pyrogallol) film on glassy carbon electrode for selective preconcentration and stripping voltammetric determination of Sb(III), 373 (1998) 15

# Poly(tetrafluoroethylene)

Graphite-poly(tetrafluoroethylene) electrodes as electrochemical detectors in flowing systems, 314 (1995) 13

# Poly(thionine) film

A reagentless hydrogen peroxide sensor based on incorporation of horseradish peroxidase in poly(thionine) film on a monolayer modified electrode, 391 (1999) 299

# Poly(vinyl alcohol)

An amperometric Meldola Blue-mediated sensor high sensitive to hydrogen peroxide based on immobilization of horseradish peroxidase in a composite membrane of regenerated silk fibroin and poly(vinyl alcohol), 329 (1996) 97

Determination of poly(vinyl alcohol) by adsorptive stripping voltammetry based on its copper(II) complex, 338 (1997) 103

Determination of p-aminobenzoic acid in the presence of bovine serum albumin by room-temperature phosphorimetry on a poly(vinyl alcohol) substrate, 367 (1998) 33

# Poly(vinyl pyrrolidone)

Sensitivity of modified bulk acoustic waves for the detection of phenols in the vapour phase, 318 (1995) 77

# Poly(vinylbenzyl chloride)

Derivatized, swellable polymer microspheres for chemical transduction, 400 (1999) 55

# Poly(vinylchloride)

Blood compatibility and extended linearity of lactate enzyme electrode using poly(vinyl chloride) outer membranes, 353 (1997) 281

### Poly(vinylidene difluoride)

Rapid method for assay of quantitative binding of soluble proteins and photosynthetic membrane proteins on poly(vinylidene difluoride) membranes, 365 (1998) 109

# Poly(4-vinylpyridine)

Square-wave voltammetric stripping analysis of bismuth(III) at a poly(4-vinylpyridine)/mercury film electrode, 320 (1996) 43

Fabrication of directly polymerized 4-vinylpyridine onto a pencil 2B graphite paste electrode for glucose monitoring, 354 (1997) 351

### Poly(vinylpyrrolidone)

Evaluation of a chemical vapor dosimeter using polymer-coated SERS substrates, 399 (1999) 265

#### (Poly)pyrrole

A glucose sensor, interference free for ascorbic acid, 305 (1995) 18 Glucose detection at bare and sputtered platinum electrodes coated with polypyrrole and glucose oxidase, 335 (1996) 209

# Polyacrylamide

Use of photopolymerizable membranes based on polyacrylamide hydrogels for enzymatic microsensor construction, 351 (1997)

Quantitation of metallothionein isoforms in mouse liver on capillary zone electrophoresis, 372 (1998) 241

# Polyacrylamide gel

Affinity adsorption separation of mutagenic molecules by polyacrylamide hydrogels comprising double-stranded DNA, 365 (1998) 101

# Polyacrylamide gel electrophoresis

Application of electrophoresis and related methods, such as western blotting and zymography to the study of some proteins and enzymes, 383 (1999) 119

Evaluating the quality of oligonucleotides that are immobilized on glass supports for biosensor development, 395 (1999) 273

# Polyacrylamide gels electrofocusing

Application of electrophoresis and related methods, such as western blotting and zymography to the study of some proteins and enzymes, 383 (1999) 119

# Polyacrylamide hydrogel

Response of a thickness-shear mode quartz crystal resonator upon hydrogel formation, 351 (1997) 177

# Polyacrylamide slab gel electrophoresis

Application of polyacrylamide slab gel electrophoresis to the analysis and small-scale purification of amyloid proteins, 372 (1998) 161

# Polyacrylate

Determination of branched carbon number distribution of polyacrylate by liquid chromatography, 357 (1997) 219

### Polyadenylic-polyuridylic acid

Study of the acid-base equilibria and conformational changes of double stranded polyadenylic-polyuridylic acid in aqueous solution, 363 (1998) 119

# Polyamide 2.5th Order differential voltammetry

The 2.5th order differential voltammetric determination of phenol with a composite carbon paste/polyamide electrode, 353 (1997) 71

### Polyamine ligands

The effect of chelate ring size on metal ion size-based selectivity in polyamine ligands containing pyridyl and saturated nitrogen donor groups, 312 (1995) 307

# Polyamine-bonded resin

Multifunctional separation with polyamine-bonded resin, 303 (1995) 193

# Poly-\u00e3-aminoanthraquinone

Properties of poly-β-aminoanthraquinone modified carbon fiber electrode as a basis for hemoglobin biosensors, 327 (1996) 125

### Polyaminopolycarboxylate ligand

Potentiometric study of the equilibria between triethylenetetraminehexaacetic acid and H(I), Mn(II), La(III) and Ga(III) in aqueous solution, 367 (1998) 261

# Polyaminopolycarboxylic acids

Capillary electrophoresis in speciation analysis. Investigations of metal-polyaminopolycarboxylate complexes and effects of metals on proteins, 306 (1995) 91

# Polyaniline

Determination of pH using a polyaniline-coated piezoelectric crystal, 329 (1996) 105

Copper dispersed into polyaniline films as an amperometric sensor in alkaline solutions of amino acids and polyhydric compounds, 335 (1996) 217

Optical sensing of pH using thin films of substituted polyanilines, 357 (1997) 247

Characterization of a single-piece all-solid-state lithium-selective electrode based on soluble conducting polyaniline, 385 (1999) 163

A creatinine deiminase modified polyaniline electrode for creatinine analysis, 392 (1999) 143

Development of an electrochemical flow injection immunoassay (FIIA) for the real-time monitoring of biospecific interactions, 400 (1999) 109

# Polyarginine

High molecular weight polyarginine as a capillary coating for separation of cationic proteins by capillary electrophoresis, 307 (1995) 193

# Polyaromatic hydrocarbons

Phosphorescence imaging system using an acousto-optic filterbased charge coupled device, 351 (1997) 229

The effects of surfactants on the analysis of organic pollutants in natural waters, 392 (1999) 39

Investigation of organic pollutants from house heating systems using biogenic fuels and correlations with other exhaust gas components, 393 (1999) 131

#### Polybrene

High molecular weight polyarginine as a capillary coating for separation of cationic proteins by capillary electrophoresis, 307 (1995) 193

# Polybutenylsuccinimide

Liquid chromatographic determination of base oil composition and content in lubricating oils containing dispersants of the polybutenylsuccinimide type, 306 (1995) 73

Isolation of polybutenylsuccinimide-type dispersant from monograde and multigrade lubricating oils by classical liquid-adsorption chromatography on a Florisil column, 314 (1995) 161

### Polybutenylsuccinimide dispersants

Characterization of engine motor oils dispersants of the polybutenylsuccinimide type by saponification, methylation and size exclusion chromatography, 322 (1996) 31

# Polybutenylsuccinimide type dispersant

Isolation of polybutenylsuccinimide-type dispersants from multigrade lubricating oils by classical cation exchange chromatography, 339 (1997) 109

### **Polycations**

Optical films for protamine detection with lipophilic dichlorofluorescein derivatives, 334 (1996) 139

### Polychlorinated biphenyls

Optimization of supercritical fluid extraction for polychlorinated biphenyls from sediments, 310 (1995) 93

Detection of polychlorinated biphenyls by photoactivated fluorescence and by sensitized laser photolysis, 319 (1996) 221

Enzyme immunoassay with amperometric flow-injection analysis using horseradish peroxidase as a label. Application to the determination of polychlorinated biphenyls, 336 (1996) 167

Determination of polychlorinated biphenyls by liquid chromatography following cloud-point extraction, 358 (1998) 145

Determination of trace levels of polychlorinated biphenyls on reversed phase octadecyl bonded silica membranes, 386 (1999) 271

# Polychlorobenzenes (PCBzs)

Investigation of organic pollutants from house heating systems using biogenic fuels and correlations with other exhaust gas components, 393 (1999) 131

# Polychloro-dibenzo-p-dioxins and polychloro-dibenzo-furans (PCDD/Fs)

Investigation of organic pollutants from house heating systems using biogenic fuels and correlations with other exhaust gas components, 393 (1999) 131

# Polychlorophenols (PCPhs)

Investigation of organic pollutants from house heating systems using biogenic fuels and correlations with other exhaust gas components, 393 (1999) 131

# Polyclonal antibodies

Stabilization of enzyme immunoassays for atrazine, 362 (1998) 35Development of anti-phenylurea antibody purification techniques for improved environmental applications, 376 (1998) 41

### Polyclonal anti-dinitrophenyl antibody

Chiral interaction of a polyclonal anti-dinitrophenyl antibody with dinitrophenyl-amino acids determined by an enantioselective enzyme-linked immunosorbent assay, 332 (1996) 285

# Polycyclic aromatic compounds (PAC)

Evaluation of total luminescence data with chemometrical methods: a tool for environmental monitoring, 356 (1997) 61

# Polycyclic aromatic hydrocarbons

Liquid chromatographic separation of polycyclic aromatic hydrocarbons with cerium(IV) oxide as packing material, 309 (1995) 153

Applicability of low temperature high-resolution fluorescence spectroscopy to the analysis of nitro and amino polycyclic aromatic hydrocarbons, 312 (1995) 165

Spectrochemical investigations in molecularly organized solvent media: evaluation of nitromethane as a selective fluorescence quenching agent for alternant PAHs dissolved in micellar solvent media, 324 (1996) 175

Metallomesogens as stationary phases for ligand exchange gas chromatography - Part I. The use of nickel and zinc complexes of 4-decanoxydithiobenzoic acid for the separation of polycyclic aromatic hydrocarbons and dialkyl sulfides, 332 (1996) 23

Shpol'skii spectroscopy as a tool in environmental analysis for amino- and nitro-substituted polycyclic aromatic hydrocarbons: A critical evaluation, 333 (1996) 193

Identification and quantification of overlapped peaks in liquid chromatography with UV diode array detection using an adaptive Kalman filter, 335 (1996) 1

Correction of fluorescence inner filter effects and the partitioning of pyrene to dissolved organic carbon, 338 (1997) 155

Immunoaffinity chromatography of polycyclic aromatic hydrocarbons in columns prepared by the sol-gel method, 339 (1997) 241

Efficiency of the microwave-assisted extraction of hydrocarbons and pesticides from sediments, 344 (1997) 241

Flow methods for the determination of polycyclic aromatic hydrocarbons using low power photomultiplier tube and charge coupled device chemiluminescence detection, 346 (1997) 113

Isomer-specific detection of azaarenes in environmental samples by Shpol'skii luminescence spectroscopy, 354 (1997) 181

Quantitative multicomponent analysis of polycyclic aromatic hydrocarbons in water samples, 361 (1998) 233

Classification and quantification of polycyclic aromatic hydrocarbons on quartz sand particles by direct Fourier transform imaging fluorescence, 367 (1998) 1

Study on the magnetic-polarization-resonance-synchronous-fluorimetry and its application to simultaneous determination of polycyclic aromatic hydrocarbons, 367 (1998) 11 Retention behavior of polycyclic aromatic hydrocarbons in microcolumn liquid chromatography with acridine derivative as stationary phase, 370 (1998) 125

Multivariate calibration of polycyclic aromatic hydrocarbon mixtures from excitation–emission fluorescence spectra, 373 (1998) 311

Determination of trace levels of polychlorinated biphenyls on reversed phase octadecyl bonded silica membranes, 386 (1999) 271

Flow injection immunosensing of polycyclic aromatic hydrocarbons with a quartz crystal microbalance, 387 (1999) 29

Anionic surfactants in acid media: a new cloud point extraction approach for the determination of polycyclic aromatic hydrocarbons in environmental samples, 392 (1999) 29

Excitation-emission matrix fluorescence based determination of carbamate pesticides and polycyclic aromatic hydrocarbons, 397 (1999) 61

### Polycyclic aromatic sulfur heterocycles

Gas chromatography-atomic emission detection for quantification of polycyclic aromatic sulfur heterocycles, 376 (1998) 265

# Polyelectrolyte effects

Influence of selectivity and polyelectrolyte effects on the performance of soft-modelling and hard-modelling approaches applied to the study of acid-base equilibria of polyelectrolytes by spectrometric titrations, 331 (1996) 195

### **Polyelectrolytes**

Potentiometric titration of poly(acrylic acid) in mixed counterion systems: Chemical binding of Cd ions, 369 (1998) 109

Microplate immunoassay technique using polyelectrolyte carriers: kinetic studies and application to detection of the herbicide atrazine, 399 (1999) 151

# Polyesterification

Determination of acid value, hydroxyl value and water content in reactions between dicarboxylic acids and diols using nearinfrared spectroscopy and non-linear partial least squares regression, 349 (1997) 287

### Polyetherimide

Evaluation of the dialysing yield of membranes with different composition. Application to the analysis of chloride in fruit juices by flow injection, 353 (1997) 245

# Polyethylene

Mass spectrometric analysis of additives in polymer extracts by desorption chemical ionization and collisional induced dissociation with B/E linked scanning, 311 (1995) 153

Analysis of plastic recycling products by expert systems, 312 (1995) 231

Development of a carbon composite electrode made from polyethylene and graphite powder modified with copper(I) oxide, 326 (1996) 107

# Polyethylene powder

On-line separation and spectrophotometric determination of low levels of aluminum in high-salt content samples: application to analysis of hemodialysis fluids, 362 (1998) 163

# Polyethyleneimine

Polyethyleneimine-coated reticulated vitreous carbon electrode with immobilized enzymes as a substrate detector, 374 (1998) 185

### Polyfluorinated stationary reversed phase

Liquid chromatographic determination of taxol and related derivatives using a new polyfluorinated reversed-phase column, 319 (1996) 187

### Polyhydroxy antibiotics

Determination of polyhydroxy antibiotics by capillary zone electrophoresis with amperometric detection at a nickel electrode, 329 (1996) 49

### Polyion complex

Amperometric ℓ-lactate-sensing electrode based on a polyion complex layer containing lactate oxidase. Application to serum and milk samples, 314 (1995) 233

Glucose oxidase/polyion complex-bilayer membrane for elimination of electroactive interferents in amperometric glucose sensor, 364 (1998) 173

## Poly-1.-lysine modified hanging mercury drop electrode

Cathodic stripping voltammetric determination of ceftazidime with reactive accumulation at a poly-L-lysine modified hanging mercury drop electrode, 384 (1999) 159

# Polymer analysis

Microstructure of alkoxy and alkyl substituted isocyanate copolymers determined by desorption chemical ionization mass spectrometry, 356 (1997) 149

### Polymer based sensors

Pulsed electrochemical detection of proteins using conducting polymer based sensors, 315 (1995) 27

# Polymer coated ATR

Determination of pesticides in water using ATR-FTIR spectroscopy on PVC/chloroparaffin coatings, 334 (1996) 85

# Polymer coating

Development of a needle-type biosensor for intravascular glucose monitoring, 313 (1995) 45

Surface morphology and the response of piezoelectric gas sensors, 315 (1995) 83

Piezoelectric sensor for detection of organic amines in aqueous phase based on a polysiloxane coating incorporating acidic functional groups, 345 (1997) 29

# Polymer electrodes

Synergetic effects in the flow injection analysis determination of catechol in the presence of excess ascorbic acid by series dual-band amperometric detection, 385 (1999) 281

### Polymer films

Development of amperometric biosensors based on the immobilization of enzymes in polymer films electrogenerated from a series of amphiphilic pyrrole derivatives, 311 (1995) 23

Flow injection analysis as a tool for studying polymer modified electrodes, 329 (1996) 181

Influence of nonionic surfactants on the optical response of cation selective membrane films, 397 (1999) 287

### Polymer functionalization

Functionalization of nitrocellulose membranes using ammonia plasma for the covalent attachment of antibodies for use in membrane-based immunoassays, 376 (1998) 133

#### Polymer matrix

Detection of volatile organic compounds in the vapor phase using solvatochromic dye-doped polymers, 341 (1997) 53

### Polymer membrane electrodes

Novel response mechanism and application of sulfite sensitive polymeric membrane electrode based on dithiocarbamate complexes of mercury(II), 310 (1995) 211

# Polymer modified-electrode

Electrocatalytic and flow-injection determination of the antioxidant tert.-butylhydroxyanisole at a nickel phthalocyanine polymer modified electrode, 305 (1995) 49

# Polymer solutions

Studies on polymer solutions, gels and grafted layers using the quartz crystal microbalance technique, 314 (1995) 23

#### Polymer swelling

Dyeless optical detection of ammonia in the gas phase using pHresponsive polymers with reflectometric interference spectroscopy, 372 (1998) 333

Derivatized, swellable polymer microspheres for chemical transduction, 400 (1999) 55

# Polymer waveguide type optode

Ion-sensitive and selective active waveguide optodes, 342 (1997) 31

# Polymerase chain reaction

Recovery and amplification of plasmid DNA with atomic force microscopy and the polymerase chain reaction, 361 (1998) 1

The validation of methods based on polymerase chain reaction for the detection of genetically modified organisms in food, 393 (1999) 177

# Polymeric cartridges

Monitoring of pesticides in river water based on samples previously stored in polymeric cartridges followed by on-line solid-phase extraction-liquid chromatography—diode array detection and confirmation by atmospheric pressure chemical ionization mass spectrometry, 386 (1999) 237

### Polymeric films

Enhancing EMF stability of solid-state ion-selective sensors by incorporating lipophilic silver-ligand complexes within polymeric films, 321 (1996) 173

Optical films for protamine detection with lipophilic dichlorofluorescein derivatives, 334 (1996) 139

Optical sensors for sodium, potassium and ammonium ions based on lipophilic fluorescein anionic dye and neutral carriers, 357 (1997) 85

# Polymeric membranes

Lipophilicity of tetraphenylborate derivatives as anionic sites in neutral carrier-based solvent polymeric membranes and lifetime of corresponding ion-selective electrochemical and optical sensors, 309 (1995) 7

Correlation between the electrical charge properties of polymeric membranes and the characteristics of ion field effect transistors or penicillinase based enzymatic field effect transistors, 331 (1996) 217

# Polymeric phase-transfer catalyst

Extractive pentafluorobenzylation using a polymeric phase-transfer catalyst: a convenient one-step pretreatment for gas chromatographic analysis of anionic compounds, 356 (1997) 165

### Polymerization

Trapping method of antibodies on surfaces of polymerizing discs for enzyme immunoassay, 312 (1995) 85

Design and characterization of chemically modified electrodes with iron(III) porphyrinic-based polymers: Study of their reactivity toward nitrites and nitric oxide in aqueous solution, 341 (1997) 177

#### **Polymers**

Application of TiO<sub>2</sub> sol for UV radiation measurements, 311 (1995) 115

Mass spectrometric analysis of additives in polymer extracts by desorption chemical ionization and collisional induced dissociation with B/E linked scanning, 311 (1995) 153

Selective detection of nitrogen and oxygen containing volatile organic compounds: use of metal-modified polysiloxanes as sensor coatings, 346 (1997) 327

# Polymer-zirconium complex

Separation and preconcentration of fluoride at the ng ml<sup>-1</sup> level with a polymer complex of zirconium(IV) followed by potentiometric determination in a flow system, 388 (1999) 201

# Poly-N-isopropylacrylamide

A novel polymer-mimetic enzyme immunoassay system based on thermal phase separating technique, 375 (1998) 177

Mimicry of peroxidase by co-immobilization of 1-allylimidazole and hemin on N-isopropylacrylamide-based hydrogel, 400 (1999) 135

# Polynomial analytical function

A computer program for searching the best model for describing different experimental systems, 340 (1997) 267

# Polynomial regression

A novel strategy for systematic optimization of micellar electrokinetic chromatography separations, 342 (1997) 133

# Polynuclear aromatic compounds

Analysis of polynuclear aromatic compounds using laser-excited synchronous fluorescence, 303 (1995) 247

### Polynuclear complexes

Analytical characterization of supramolecular species – determination of ruthenium and osmium in dendrimers by electrothermal atomic absorption spectrometry, 375 (1998) 285

Polynuclear complexes of the edta analogues, 394 (1999) 345

### Polynucleotides

Electrochemical analysis of formation of polynucleotide complexes in solution and at electrode surfaces, 344 (1997) 65

### Polyolesters

Measuring the water content of synthetic lubricants with polymercoated sensors, 315 (1995) 15

### Polyols determination in wine

Development of a potentiometric procedure for determination of glycerol and 2,3-butanediol in wine by sequential injection analysis, 366 (1998) 193

### Polypeptide chains

High performance liquid chromatographic analysis of human hemoglobins and their polypeptide chains: its use in the identification of variants, 352 (1997) 187

### Polypeptides

Affinity capillary electrophoresis of proteins and peptides, 383 (1999) 61

### Polyphenol films

Evaluation of amperometric glucose biosensors based on co-immobilisation of glucose oxidase with an osmium redox polymer in electrochemically generated polyphenol films, 304 (1995) 127

# Polyphenol oxidase

Plant tissue electrode for the determination of atrazine, 316 (1995)

Determination of flavanols in beers with tissue biosensors, 347 (1997) 281

Flow injection spectrophotometric determination of sulfite using a crude extract of sweet potato root (*Ipomoea batatas* (L.) Lam.) as a source of polyphenol oxidase, 354 (1997) 51

Flow injection spectrophotometric determination of total phenols using a crude extract of sweet potato root (*Ipomoea hatatas* (L.) Lam.) as enzymatic source, 366 (1998) 111

Development and demonstration of an immobilised-polyphenol oxidase bioprobe for the detection of phenolic pollutants in water, 389 (1999) 161

L-Cysteine determination using a polyphenol oxidase-based inhibition flow injection procedure, 399 (1999) 287

### Polyphenols

On line coupling of a liquid—liquid extraction flow-reversal system to a spectrophotometric flow-through sensor for the determination of polyphenols in olive oil, 323 (1996) 55

Statistical design for optimization of extraction of polyphenols from an inert matrix using carbon dioxide-based fluids, 391 (1999) 321

### Polyprotic acids and bases

General equation for determining the dissociation constants of polyprotic acids and bases from additive properties. Part I. Theory, 390 (1999) 261

General equation for determining the dissociation constants of polyprotic acids and bases from additive properties. Part II. Applications, 390 (1999) 267

### Polypyridine films

An electrochemical quartz crystal microbalance-based investigation of the properties displayed by electroactive polypyridine films, 305 (1995) 212

# Polypyrrole

Poly(amphiphilic pyrrole)-tyrosinase-peroxidase electrode for amplified flow injection-amperometric detection of phenol, 319 (1996) 145

Polypyrrole-based amperometric flow injection biosensor for urea, 323 (1996) 107

Electroimmobilisation of sulphite oxidase into a polypyrrole film and its utilisation for flow amperometric detection of sulphite, 332 (1996) 145

Optical sensing of pH based on polypyrrole films, 334 (1996) 149

Pulsed-amperometric detection of urea in blood samples on a conducting polypyrrole-urease biosensor, 341 (1997) 155

Water-instigated changes in elastic modulus of polypyrrole studied by thin rod acoustic wave sensor, 353 (1997) 255

Electrosynthesis of polypyrrole in iodide solution. Film growth, redox behaviour and potentiometric response, 355 (1997) 217

Application of inverse gas chromatography to characterisation of a polypyrrole surface, 363 (1998) 147

Extraction of silver by polypyrrole films upon a base-acid treatment, 364 (1998) 41

Characterisation and analytical use of a polypyrrole electrode containing anti-human serum albumin, 371 (1998) 39

Micromachined biosensor terminals for the study of growing neurons, 385 (1999) 73

PFeW<sub>11</sub>-doped polymer film modified electrodes and their electrocatalytic activity for H<sub>2</sub>O<sub>2</sub> reduction, 385 (1999) 111

Electropolymerization of pyrrole and phenylenediamine over an organic conducting salt based amperometric sensor of increased selectivity for glucose determination, 385 (1999) 203

Characterization of an electro-synthesized methoxylated polypyrrole film used as permselective barrier in amperometric biosensors by X-ray photoelectron and Fourier transform infrared spectroscopy, 389 (1999) 197

# Polypyrrole electrodes

Selectivity and sensitivity of ultrathin purine-templated overoxidized polypyrrole film electrodes, 336 (1996) 37

### Polypyrrole electropolymerization

In situ preparation of a cholesterol biosensor: entrapment of cholesterol oxidase in an overoxidized polypyrrole film electrodeposited in a flow system. Determination of total cholesterol in serum, 385 (1999) 213

# Polypyrrole film

In situ biochemical reduction of interference in an amperometric biosensor with a novel heterobilayer configuration of polypyrrole/glucose oxidase/horseradish peroxidase, 329 (1996) 223

A new amperometric biosensor for salicylate based on salicylate hydroxylase immobilized on polipyrrole film doped with hexacyanoferrate, 347 (1997) 35

# Polypyrrole, base and acid treated

Extraction of silver by polypyrrole films upon a base-acid treatment, 364 (1998) 41

# Polypyrrole-dodecylsulphate

Electrochemical response of a polypyrrole-dodecylsulphate electrode with multicharged cations and vitamins B<sub>1</sub> and B<sub>6</sub>. Application as a microsensor in flow-injection analysis, 336 (1996) 47

### **Polysaccharides**

Voltammetry of Pb(II), Cd(II) and Zn(II) ions in the presence of the sulphated polysaccharide λ-carrageenan, 310 (1995) 121

# Polysiloxane coatings

Multicomponent gas analysis of a mixture of chloroform, octane and toluene using a piezoelectric quartz crystal sensor array, 393 (1999) 67

### Polysiloxane membranes

Durable nitrate-selective chemically modified field effect transistors based on new polysiloxane membranes, 332 (1996) 123

Novel membrane material for ion-selective field-effect transistors with extended lifetime and improved selectivity, 335 (1996) 103

### Polystyrene

Supersonic jet multiphoton ionization mass spectrometry using nanosecond and femtosecond pulse lasers, 343 (1997) 129

### **Polysulphides**

Selective up-hill transport of gold to iodide stripping solution through a solvent modified liquid membrane containing a polysulphide podand as carrier, 327 (1996) 175

# Polytetrafluoroethylene

Direct determination of cadmium in solid biological materials by slurry sampling electrothermal atomic absorption spectrometry with polytetrafluoroethylene as a chemical modifier, 391 (1999)

### Polytetrafluoroethylene slurry

Fluorination with polytetrafluoroethylene slurry in electrothermal vaporization-inductively coupled plasma-atomic emission spectrometry, 319 (1996) 255

# Polythiophene electrode

Peroxidase-incorporated hydrophilic polythiophene electrode for the determination of hydrogen peroxide in acetonitrile, 318 (1996) 297

### Polytyramine

Immobilisation of enzyme throughout a polytyramine matrix: a versatile procedure for fabricating biosensors, 394 (1999) 211

# Polyurethane foam

Preconcentration and separation of acaricides by polyether based polyurethane foam, 320 (1996) 277

Polyurethane foam as a sorbent for continuous flow analysis: Preconcentration and spectrophotometric determination of zinc in biological materials, 366 (1998) 263 An on-line solid phase extraction system using polyurethane foam for the spectrophotometric determination of nickel in silicates and alloys, 378 (1999) 287

### Polyurethane foam chitosan

Visual determination of mercury(II) using horseradish peroxidase immobilized on polyurethane foam, 392 (1999) 151

#### Polyurethane foams

Sorption-photometric determination of ascorbic acid using molybdosilicic heteropolyacid and polyurethane foam after microwave irradiation, 373 (1998) 131

# Polyvalent system

A polyvalent flow injection system for multielemental spectrophotometric analysis of plant materials, 370 (1998) 39

### Poly-4-vinyl pyridine

Correlation between the electrical charge properties of polymeric membranes and the characteristics of ion field effect transistors or penicillinase based enzymatic field effect transistors, 331 (1996) 217

# Poly[allylamine-co-N-4-(8-aminoquinolyl-5-azo)benzylideneallylaminel

A new polymeric chromogenic reagent for the determination of copper(II), 334 (1996) 213

#### Poorly water soluble drugs

Ionization constants of water insoluble arylpropionic acids in aqueous N,N-dimethylformamide mixtures from potentiometric pH-titrations, 356 (1997) 253

### POPSO

Electrochemical study of proton ionisation, copper(II) complexation and surfactant properties of piperazine-N-N'-bis[2-hydroxypropanesulfonic acid] pH buffer . Comparison with other N-substituted aminosulfonic acids pH buffers, 369 (1998) 115

### Pore gradient electrophoresis

Evaluation of commonly used electrophoretic methods for the analysis of proteins and peptides and their application to biotechnology, 383 (1999) 47

# Pore gradient gel electrophoresis

Pore gradient gel electrophoresis: theory, practice, and applications, 372 (1998) 91

# Poreflon

Approaches to in-line removal of dissolved oxygen in flow systems for process analysis, 332 (1996) 31

### Porewater

Microtechniques for the determination of nanomolar concentrations of trace elements in ≤ 10 ml of sediment porewater, 328 (1996)

### POROS 50 OH

The development of a non-competitive immunoenzymometric assay of cocaine, 358 (1998) 5

### Porous carbon micro-electrode

Determination of iron ion utilizing poly (p-vinylbenzoylacetone) modified micro-electrode, 369 (1998) 87

### Porous graphitic carbon

Liquid chromatographic determination of methylamines. Determination of trimethylamine in fish samples using a porous graphitic carbon stationary phase, 322 (1996) 63

Diastereoisomer separation of methylidene malonate 2.1.2 oligomerization products by liquid chromatography using a non-chiral stationary phase, 359 (1998) 57

#### Porous silicon

A study of hydrogen detection with palladium modified porous silicon, 375 (1998) 205

# Porphyrin and metalloporphyrin compounds

Aqueous two-phase system of cationic and anionic surfactant mixture and its application to the extraction of porphyrins and metalloporphyrins, 369 (1998) 11

# Porphyrin compounds

Aqueous two-phase extraction system of sodium perfluorooctanoate and dodecyltriethylammonium bromide mixture and its application to porphyrins and dyes, 390 (1999) 125

### Porphyrin film

Design and characterization of chemically modified electrodes with iron(III) porphyrinic-based polymers: Study of their reactivity toward nitrites and nitric oxide in aqueous solution, 341 (1997) 177

### Porphyrin TMAP

Electrochemical studies of porphyrin interacting with DNA and determination of DNA, 344 (1997) 97

# **Porphyrins**

Fluorimetric determination of mercury with a water-soluble porphyrin and porphyrin-doped sol-gel films, 304 (1995) 107

Studies with solid-state phosphorescent coatings on their sensitivity to nitrogen oxides, 310 (1995) 233

Flow injection spectrophotometric determination of ng ml<sup>-1</sup> levels of cobalt(II) using the photochemical decomposition of a cadmium(II)-water-soluble porphyrin complex, 323 (1996) 63

Chemiluminescence detection of porphyrins with the peroxyoxalate reaction by flow-injection analysis, 339 (1997) 131

Determination of nitric oxide saturated (stock) solution by chronoamperometry on a porphyrine microelectrode, 339 (1997)

Novel method of detecting mismatch on DNA by using photoinduced electron transfer through DNA, 365 (1998) 49

Optical sensing of sulfite with a phosphorescent probe, 374 (1998) 1Potentiometric anion response of poly(5,15-bis(2-aminophenyl)porphyrin) electropolymerized electrodes, 381 (1999) 197

### Port wine

Determination of lead isotope ratios in port wine by inductively coupled plasma mass spectrometry after pre-treatment by UVirradiation, 396 (1999) 45

#### Portland cement

Application of stripping voltammetry at a static mercury drop electrode for the determination of aluminium and iron in Portland cement. 353 (1997) 313

#### Positional isomers

Use of calix[4]arene to separate positional isomers in capillary electrophoresis, 358 (1998) 263

#### Positive matrix factorization

Calibration transfer as a data reconstruction problem, 384 (1999)

# Post column reaction detection

Complex formation of 2-(5-nitro-2-pyridylazo)-5-(N-propyl-Nsulfo-propylamino)phenol with lead, cadmium and manganese for their sensitive spectrophotometric detection in flow injection and ion chromatography systems, 345 (1997) 139

### Post-column complexation

Determination of trace metal ions by capillary electrophoresis with fluorescence detection based on post-column complexation with 8-hydroxyquinoline-5-sulphonic acid, 371 (1998) 269

# Postcolumn derivatization

High selective determination of bromate in ozonized water by using ion chromatography with postcolumn derivatization equipped with reagent preparation device, 346 (1997) 299

HPLC and post-column derivatization with fluorescamine: isolation of actin-sequestering β-thymosins by reversed-phase HPLC, 352 (1997) 239

# Post-column detection

Chemiluminescence from fluorescent organic compounds induced by cobalt(II) catalyzed decomposition of peroxomonosulfate, 371 (1998) 163

### Post-column enzyme reactor

Determination of acetylcholine and choline with platinum-black ultramicroarray electrodes using liquid chromatography with a post-column enzyme reactor, 318 (1996) 167

# Post-column photolysis-electrochemical detection

The use of titanium dioxide as a photo-catalyst to improve the sensitivity of post-column photolysis-electrochemical detection for microbore liquid chromatography, 356 (1997) 177

# Postcolumn UV irradiation

Determination of quinolinic acid in human urine by liquid chromatography with fluorimetric detection, 302 (1995) 179

# Post-source decay

Post-source decay production studies of aniline and methylaniline adducts of deoxyguanosine, 397 (1999) 257

### Potassium

A potassium-ion selective electrode with valinomycin based poly-(vinyl chloride) membrane and a poly(vinyl ferrocene) solid contact, 302 (1995) 241

Three pressurized mineralization procedures that permit subsequent flame atomic spectrometric determination of Ca, Fe, K, Mg and Zn in bovine blood plasma-containing cookies and in standard reference materials, 306 (1995) 139

Spectrofluorimetric flow-injection determination of potassium in serum based on enzyme activation, 308 (1995) 178

Determination of sodium, potassium, calcium and magnesium cations by capillary electrophoresis compared with ion chromatography, 314 (1995) 67

Sequential analyte removal in flow analysis: determination of nitrogen, phosphorus and potassium in fertilizers, 317 (1995) 239

Determination of ultratrace metallic impurities in fluorocarbon polymers by electrothermal atomic absorption spectrometry after decomposition with a combustion system, 336 (1996) 151

Turbidimetric flow-injection determination of total nitrogen and potassium in vegetables, 356 (1997) 259

Novel sensors for potassium, calcium and magnesium ions based on a silicon transducer as a light-addressable potentiometric sensor, 382 (1999) 131

### Potassium hexacyanoferrate(III)

The determination of chlorogenic acid in cigarettes by inhibited chemiluminescence analysis, 351 (1997) 241

Determination of hydrogen peroxide using a potassium hexacyanoferrate(III) modified titanium dioxide electrode, 358 (1998) 291

Glucose conductometric biosensor with potassium hexacyanoferrate(III) as an oxidizing agent, 374 (1998) 11

#### Potassium ion sensor

Dipicrylamine-modified triacetylcellulose membrane for optical pH and potassium ion measurement, 335 (1996) 227

# Potassium ion-selective electrodes

Methacrylate-acrylate based polymers of low plasticiser content for potassium ion-selective membranes, 324 (1996) 47

Plasticizer-free all-solid-state potassium-selective electrode based on poly(3-octylthiophene) and valinomycin, 385 (1999) 195

# Potassium permanganate

Spectrophotometric determination of nicotine, 379 (1999) 75

# Potassium peroxodisulphate

Measurement of dissolved total nitrogen in wastewater by UV photooxidation with peroxodisulphate, 389 (1999) 267

# Potassium sulphate

Potentiometric determination of sulphur in solid samples with a sulphide selective electrode, 380 (1999) 39

# Potassium superoxide

Chemiluminescence of β-lactam antibiotics following oxidation by potassium superoxide, 338 (1997) 1

### Potato

On-line analysis of sample atmospheres using membrane inlet mass spectrometry as a method of monitoring vegetable respiration rate, 394 (1999) 43

### Potential functions

Detection of prediction outliers and inliers in multivariate calibration, 388 (1999) 283

# Potential step

Theoretical treatment of the current vs. time response of microelectrode arrays to changes of potential, concentration, or flow, 341 (1997) 121

# Potentiometric analysis

Potentiometric determination of sulphur in solid samples with a sulphide selective electrode, 380 (1999) 39

### Potentiometric biosensor

A potentiometric biosensor for D-amygdalin based on a consolidated biocomposite membrane, 391 (1999) 65

#### Potentiometric characterisation of sediment

Acid-base and copper(II) sorption properties of a natural lake sediment: Potentiometric and atomic absorption spectrometric characterisation, 358 (1998) 195

#### Potentiometric data

Humic substances' proton-binding equilibria: assessment of errors and limitations of potentiometric data, 392 (1999) 333

#### Potentiometric detection

Universal coulometric nanotitrators with potentiometric detection, 361 (1998) 261

Flow-injection analysis wit potentiometric detection for the speciation of fluoride and calcium, 366 (1998) 23

Field-portable capillary electrophoresis instrument with potentiometric and amperometric detection, 393 (1999) 77

# Potentiometric lysine biosensor

Potentiometric biosensor for lysine analysis based on a chemically immobilized lysine oxidase membrane, 371 (1998) 49

# Potentiometric precipitation titration

Simultaneous determination of halide and thiocyanate ions by potentiometric precipitation titration and multivariate calibration, 390 (1999) 117

# Potentiometric selectivity

Influence of lipophilic anionic compounds on the selectivity of ionselective electrodes based on podands with phosphoryl complexing groups, 385 (1999) 125

# Potentiometric sensor

Porphyrins as carrier in PVC based membrane potentiometric sensors for nickel(II), 355 (1997) 33

Hydrogen ion selective electrode based on poly(1-aminoanthracene) film, 377 (1998) 21

Cadmium(II)-selective sensors based on dibenzo-24-crown-8 in PVC matrix, 389 (1999) 205

Ion sensors: current limits and new trends, 393 (1999) 11

# Potentiometric stripping

Determination of volatile arsenicals in ambient air by flow injection, 338 (1997) 215

# Potentiometric stripping analysis

Influence of Triton X-100 in stripping potentiometry, 333 (1996)

Signal filtering of potentiometric stripping analysis using Fourier techniques, 338 (1997) 167

Adsorptive potentiometric stripping analysis of nucleic acids at mercury electrodes, 349 (1997) 77

Adsorptive potentiometric stripping analysis of dopamine on claymodified electrode, 372 (1998) 315

Potentiometric stripping analysis of copper using cysteine modified mercury film electrode, 373 (1998) 39

Mathematical modelling of potentiometric stripping analysis. Chemical stripping in quiet solutions, 377 (1998) 13

# Potentiometric titration

Potentiometric analysis of ionic surfactants by a new type of ionselective electrode, 349 (1997) 59

Simultaneous determination of mixtures of acids by potentiometric titration, 367 (1998) 145

An integrated three-electrode system with a micromachined liquidjunction Ag/AgCl reference electrode, 387 (1999) 103

Automatic potentiometric titration in monosegmented flow system exploiting binary search, 387 (1999) 165

Protonation constants of some N-substituted thiophene-2-carboxamidoximes, 392 (1999) 343

#### Potentiometry

Anodic stripping potentiometric determination of antimony in environmental materials, 302 (1995) 225

Potentiometric stripping analysis vs. differential pulse anodic stripping voltammetry for copper(II) analysis at relatively positive deposition potential, 303 (1995) 255

Molecular size effects on carboxyl acidity: implications for humic substances, 304 (1995) 187

Signal enhancement of potentiometric stripping analysis using digital signal processing, 307 (1995) 15

On-line pervaporation separation process for the potentiometric determination of fluoride in "dirty" samples, 308 (1995) 246

Oscillating flow injection stripping potentiometry, 309 (1995)

Remote stripping electrode for in situ monitoring of labile copper in the marine environment, 310 (1995) 223

Investigation of a novel chronopotentiometric detection method using a redox mediator modified carbon electrode, 310 (1995) 241

Applying moving median digital filter to mass spectrometry and potentiometric titration, 310 (1995) 281

Differential flow injection potentiometry, 311 (1995) 175

Potentiometric determination of tanatalum with a hexafluorotantalate(V)-selective liquid membrane electrode, 311 (1995) 183

Selective potentiometric determination of copper(II) ions by use of a molecular deposition film electrode based on water-soluble copper phthalocyanine, 312 (1995) 207

Improved iodometric method for simultaneous determination of non-stoichiometric oxygen and total copper content in YBCO superconductors, 312 (1995) 227

The effect of chelate ring size on metal ion size-based selectivity in polyamine ligands containing pyridyl and saturated nitrogen donor groups, 312 (1995) 307

Differential flow-injection potentiometry with double sensitivity using one ion-selective membrane, 313 (1995) 83

Application of potentiometric stripping analysis for speciation of copper complexes with adsorbable ligands on the mercury electrode, 314 (1995) 241

Determination of copper in human plasma by stripping potentiometry on a mercury film electrode in ethylenediamine medium, 315 (1995) 69

Asymmetric cellulose acetate membrane-based carbonate- and chloride-selective electrodes, 315 (1995) 311

New cocaine-selective membrane electrode, 316 (1995) 371

PKPOT, a program for the potentiometric study of ionic equilibria in aqueous and non-aqueous media, 317 (1995) 75

Determination of trace gallium by derivative adsorption chronopotentiometry, 318 (1996) 181

Application of hydrogen-palladium and deuterium-palladium electrodes in the coulometric-potentiometric determination of bases in some dipolar aprotic solvents, 318 (1996) 287

Novel potentiometric monitoring combined with coulometric reagent generation, 319 (1996) 49

Equilibrium modelling of interferences in the visible spectrophotometric determination of aluminium(III): comparison of the chromophores chrome azurol S, eriochrome cyanine R and pyrocatechol violet, and stability constants for eriochrome cyanine R-aluminium complexes, 319 (1996) 305

Solid-contact ion-selective electrode with stable internal electrode, 320 (1996) 53

Effect of pressure on the potentiometric response of ion-selective electrodes and reference electrodes, 320 (1996) 69

Determination of potentiometric selectivity, 321 (1996) 1

Determination of cholinesterase in blood serum using a benzoateselective membrane electrode made with heptyl-4-trifluoroacetylbenzoate neutral carrier, 321 (1996) 21

Penicillin enzyme biosensors based on pH membrane electrodes, 321 (1996) 27

Potentiometric membrane sensors for the selective determination of cinnarizine in pharmaceutical preparations, 321 (1996) 47

Conducting polymer-based ion-selective electrodes, 322 (1996)

A long-term stable penicillin-sensitive potentiometric biosensor with enzyme immobilized by heterobifunctional cross-linking, 323 (1996) 115

Potentiometric determination of relative basicities of aliphatic amines in pyridine, 324 (1996) 57

Potentiometric detection of pesticides in water samples, 325 (1996)

Stripping potentiometric transduction of DNA hybridization processes, 326 (1996) 141

Switching of ion selectivity of membranes by lipophilic ionic sites, 326 (1996) 163

Mathematical modelling of potentiometric stripping analysis in mechanically mixed solutions, 329 (1996) 1

Acid-base properties of a river sediment: applicability of potentiometric titrations, 329 (1996) 33

CeO<sub>2</sub> thin film electrode with a built-in electrochemically resetable oxidant for potentiometric stripping analysis, 329 (1996) 239

Determination of ranitidine in pharmaceutical preparations using manual and flow injection potentiometry and spectrophotometry, 332 (1996) 39

- Potentiometric stripping analysis of bioactive peptides at carbon electrodes down to subnanomolar concentrations, 332 (1996) 49
- Potentiometric detection of carboxylic acids by flow injection analysis using a tungsten oxide electrode, 332 (1996) 187
- Determination of chlorine and dissolved oxygen in waters and of ascorbic acid in pharmaceuticals by iodimetric potentiometric titration using a plasticized poly(vinyl chloride) membrane electrode, 333 (1996) 107
- Determination of tin in canned fruit juices by stripping potentiometry, 333 (1996) 115
- Bienzymatic potentiometric electrodes for creatine and L-arginine determination, 333 (1996) 215
- Photocured polymers in ion-selective electrode membranes. Part 5: Photopolymerised sodium sensitive ion-selective electrodes for flow injection potentiometry, 334 (1996) 133
- The potentiometric response of chemically modified electrodes, 334 (1996) 317
- Photocured polymers in ion-selective electrode membranes Part 6: Photopolymerized lithium sensitive ion-selective electrodes for flow injection potentiometry, 335 (1996) 111
- A potentiometric study of acid-base equilibria of substituted pyridine N-oxides in nitrobenzene, 335 (1996) 147
- A potentiometric study of cationic heteroconjugation equilibria in systems with substituted pyridine N-oxides in nitrobenzene, 336 (1996) 107
- Liquid chromatography of carboxylic acids using potentiometric detection with a tungsten oxide electrode, 338 (1997) 41
- Potentiometric oxygen sensor based on mixed potential of cobalt wire electrode, 341 (1997) 187
- Electrochemical analysis of formation of polynucleotide complexes in solution and at electrode surfaces, 344 (1997) 65
- The aluminium(III)-4-nitrocatechol system: potentiometry, voltammetry and application to the determination of reactive Al(III), 345 (1997) 5
- Determination of ultratrace iron in KH<sub>2</sub>PO<sub>4</sub> by derivative adsorption chronopotentiometry, 347 (1997) 257
- Rapid and simultaneous analysis of trace metals (Cu, Pb and Cd) in seawater by potentiometric stripping analysis, 351 (1997) 83
- Potentiometric determination of salicylhydroxamic acid (urinary struvite stone inhibitor) based on the inhibition of urease activity, 351 (1997) 91
- Screen-printed ruthenium dioxide electrodes for pH measurements, 351 (1997) 143
- Potentiometric detection in capillary electrophoresis with a metallic copper electrode, 354 (1997) 129
- Electrosynthesis of polypyrrole in iodide solution. Film growth, redox behaviour and potentiometric response, 355 (1997) 217
- Lead ion-selective membrane electrodes based on some recently synthesized 9,10-anthraquinone derivatives, 360 (1998) 203
- Membrane sensors for the selective determination of fluorouracil, 363 (1998) 81
- Determination of ammonia in wastewaters containing high concentrations of surfactants by flow injection potentiometry with online sample clean-up, 367 (1998) 193

- Potentiometric titration of poly(acrylic acid) in mixed counterion systems: Chemical binding of Cd ions, 369 (1998) 109
- Potentiometric detection of organic acids in liquid chromatography using conducting oligomer electrodes, 370 (1998) 105
- Flow-injection potentiometric determination of free cadmium ions with a cadmium ion-selective electrode, 370 (1998) 267
- Determination of metformin in pharmaceutical preparations using potentiometry, spectrofluorimetry and UV-visible spectrophotometry, 378 (1999) 299
- A potentiometric and differential pulse polarographic study of Cd<sup>II</sup> with 1-hydroxyethylenediphosphonic acid, 379 (1999) 217
- A field-deployable instrument for the measurement and speciation of arsenic in potable water, 380 (1999) 27
- Silver(I)-selective membrane electrode based on hexathia-18crown-6, 381 (1999) 111
- A potentiometric study of acid-base equilibria of substituted pyridines in acetonitrile, 381 (1999) 215
- Sulfate-selective PVC membrane electrodes based on a derivative of imidazole as a neutral carrier, 382 (1999) 165
- Plasticizer-free all-solid-state potassium-selective electrode based on poly(3-octylthiophene) and valinomycin, 385 (1999) 195
- Potentiometric detection in capillary electrophoresis with a conducting oligomer electrode, 385 (1999) 417
- Flow-injection analysis of Kjeldahl nitrogen in milk and dairy products by potentiometric detection, 385 (1999) 437
- Disposable strip potentiometric electrodes with solvent-polymeric ion-selective membranes fabricated using screen-printing technology, 385 (1999) 451
- Electrochemical deposition and properties of polypyrrole films doped with calcion ligands, 395 (1999) 65
- 200 years of practical electroanalytical chemistry: past, present and future directions illustrated by reference to the on-line, on-stream and off-line determination of trace metals in zinc plant electrolyte by voltammetric and potentiometric techniques, 400 (1999) 333

# Pottery

A study of Roman pottery (terra sigillata) using hierarchical fuzzy clustering, 310 (1995) 269

# Pour point depressant

Determination of alkylated polystyrene pour point depressant by preparative gel permeation chromatography, infrared spectrometry and nuclear magnetic resonance spectrometry, 373 (1998) 73

# **Powders**

- Estimation of effective sample size when analysing powders with diffuse reflectance near-infrared spectrometry, 364 (1998) 243
- Elemental analysis of powders by glow discharge mass spectrometry, 395 (1999) 165

### Powell's method

An integrated design strategy for flow-injection analysis based on the coupling of mathematical modelling and optimization algorithms, 310 (1995) 289

### Power spectra

Application of Fourier transform to multivariate calibration of nearinfrared data, 364 (1998) 253

### **Power stations**

On-line monitoring of trace amounts of copper(II) in steam condensate and boiler feed-water by flow injection analysis based on its catalytic effect on the oxidation of hydroquinone by hydrogen peroxide, 331 (1996) 257

#### POO

Amperometric flow injection determination of fructose in honey with a carbon paste sensor based on fructose dehydrogenase, 330 (1996) 71

# PQQ-dependent dehydrogenase

Aldose dehydrogenase-modified carbon paste electrodes as amperometric aldose sensors, 302 (1995) 233

# Pre- and post-column derivatization

Off-line dansylation of amines using C<sub>18</sub> solid-phase packings: study of the fluorescence and chemiluminescence detection by post-column derivatization with oxalic acid bis(2, 4, 6-trichloro phenyl ester)/H<sub>2</sub>O<sub>2</sub> in liquid chromatography. Determination of amphetamines in urine samples, 378 (1999) 83

# Precious metals

Preconcentration and matrix separation of precious metals in geological and related materials using metalfix-chelamine resin prior to inductively coupled plasma mass spectrometry, 340 (1997) 31

# Precipitation

Light scattering-based determination of fibrinogen in human plasma using an automated continuous system, 327 (1996) 101

### Precision

The quality of quantitation in chromatography Part II. Optimizing the quantitative analysis, 333 (1996) 11

The SFSTP guide on the validation of chromatographic methods for drug bioanalysis: from the Washington Conference to the laboratory, 391 (1999) 135

Comparison of alternative measurement methods, 391 (1999) 203

# Precision and accuracy

A computational study on the effect of random noise on the precision and accuracy of the integration of chromatographic peaks, 388 (1999) 187

# Precolumn derivatization

Micellar liquid chromatographic determination of diuretics by diazotization and coupling with the Bratton-Marshall reagent, 353 (1997) 215

### Preconcentration

Optimized arsenic, selenium and mercury determinations in aqueous solutions by energy dispersive x-ray fluorescence after preconcentration onto zirconium-loaded activated charcoal, 302 (1995) 89

Determination of trace metals in natural waters by flame atomic absorption spectrometry following on-line ion-exchange preconcentration, 303 (1995) 341

Determination of phenols in sea water by liquid chromatography with electrochemical detection after enrichment by using solidphase extraction cartridges and disks, 304 (1995) 75 Preconcentration and determination of Pb<sup>2+</sup> at an AlPO<sub>4</sub> containing carbon paste electrode, 304 (1995) 381

2-Mercaptobenzothiazole clay as matrix for sorption and preconcentration of some heavy metals from aqueous solution, 306 (1995) 167

Column solid phase extraction as preconcentration method for trace element determination in oxalic acid by atomic absorption spectrometry and inductively coupled plasma atomic emission spectrometry, 307 (1995) 71

Preconcentration of an analyte dialysate in a flow-injection system, 308 (1995) 214

Preconcentration and flow-injection multivariate determination of priority pollutant chlorophenols, 308 (1995) 238

Iron(II) and iron(III) determination in sea water at the nanomolar level with selective on-line preconcentration and spectrophotometric determination, 308 (1995) 425

Trace enrichment and ion chromatographic determination of metal oxoanions in environmental water samples, 309 (1995)

Applicability of a novel carbon sorbent for the preconcentration of volatile chlorinated hydrocarbons, 309 (1995) 181

Separation and preconcentration of actinides by extraction chromatography using a supported liquid anion exchanger: application to the characterization of high-level nuclear waste solutions, 310 (1995) 63

Synthesis and efficiency of an epoxy-tannin chelating resin for preconcentrating and separating various rare elements, 310 (1995) 493

On-line preconcentration and liquid chromatographic analysis of phenylurea pesticides in environmental water using a silicabased immunosorbent, 311 (1995) 429

On-line ion exchange system coupled to inductively coupled plasma atomic emission spectrometer with ultrasonic nebulization for the separation, preconcentration and determination of arsenic(V) and monomethylarsonate, 313 (1995) 243

On-line preconcentration of selenium(IV) and selenium(VI) in aqueous matrices followed by liquid chromatography-inductively coupled plasma mass spectrometry determination, 314 (1995) 183

Solid phase preconcentration-Fourier transform infrared spectrometric determination of carbaryl and 1-naphthol, 314 (1995) 203

Flame atomic absorption spectrometric determination of cobalt in biological materials using a flow-injection system with on-line preconcentration by ion-pair adsorption, 316 (1995) 329

Selective preconcentration of gallium using Muromac A-1 ion exchange column, 318 (1995) 113

Spectrographic determination of gold in geological materials after preconcentration on Spheron-Thiol, 320 (1996) 145

Preconcentration and separation of acaricides by polyether based polyurethane foam, 320 (1996) 277

Preconcentration and speciation of chromium by the determination of total chromium and chromium(III) in natural waters by flame atomic absorption spectrometry with a chelating ion-exchange flow injection system, 327 (1996) 37

Sorption and preconcentration of metal ions on silica gel modified with 2,5-dimercapto-1,3,4-thiadiazole, 327 (1996) 183

- Selective determination of palladium by on-line column preconcentration and graphite furnace atomic absorption spectrometry, 328 (1996) 1
- Microtechniques for the determination of nanomolar concentrations of trace elements in  $\leq 10$  ml of sediment porewater, 328 (1996) 13
- Column solid-phase extraction of heavy metal ions on a high surface area CeO<sub>2</sub> as a preconcentration method for trace determination, 336 (1996) 141
- Chelation ion chromatography as a technique for trace elemental analysis in complex matrix samples, 337 (1997) 173
- Determination of lead and cadmium in human hair by atomic absorption spectrometric procedures after solid phase extraction, 337 (1997) 329
- Anion-exchange resin modified with pyrocatechol violet as a functional resin for retention of Sn(IV), 338 (1997) 231
- On-line trace metal determination by pre-concentration on immobilized 8-quinolinol with flow recycling anodic stripping voltammetry, 339 (1997) 155
- Factors affecting the analytical applications of zeolite-modified electrodes Preconcentration of electroactive species, 340 (1997) 61
- Pyrocatechol Violet immobilized Amberlite XAD-2: synthesis and metal-ion uptake properties suitable for analytical applications, 340 (1997) 285
- Preconcentration and separation of palladium(II) and platinum(IV) on a dithizone anchored poly(vinylpyridine)-based chelating resin, 341 (1997) 217
- Preconcentration of inorganic species of antimony by sorption on Polyorgs 31 followed by atomic absorption spectrometry detection, 342 (1997) 167
- Cloud point extraction, preconcentration and spectrophotometric determination of erbium(III)-2-(3,5-dichloro-2-pyridylazo)-5dimethylaminophenol, 342 (1997) 229
- Determination of selenium content in natural water by graphite furnace atomic absorption spectrometry after preconcentration with molybdate-form anion exchange resin, 351 (1997) 319
- On-line sorption preconcentration of chromium(VI) and its determination by flame atomic absorption spectrometry, 354 (1997) 151
- Combination of flow injection with capillary electrophoresis. Part 3.

  On-line sorption column preconcentration capillary electrophoresis system, 355 (1997) 135
- Determination of polychlorinated biphenyls by liquid chromatography following cloud-point extraction, 358 (1998) 145
- Determination of sub-nanomolar levels of iron in seawater using flow injection with chemiluminescence detection, 361 (1998) 189
- On-line separation and spectrophotometric determination of low levels of aluminum in high-salt content samples: application to analysis of hemodialysis fluids, 362 (1998) 163
- Preconcentration and separation of inorganic selenium species on activated alumina, 363 (1998) 141
- Diffuse reflection spectroscopy of indium sorbates with immobilized heterocyclic azo compounds, 364 (1998) 235
- Determination of V(V) by a kinetic stopped-flow FIA method with spectrophotometric detection, 366 (1998) 287

- On-line separation and preconcentration of cadmium, lead and nickel in a fullerene (C<sub>60</sub>) minicolumn coupled to flow injection tungsten coil atomic absorption spectrometry, 368 (1998) 255
- γ-Aminobutyrohydroxamate resins as stationary phases of chelation ion chromatography, 369 (1998) 225
- Coupling of flow injection wetting-film extraction without segmentation and phase separation to flame atomic absorption spectrometry for the determination of trace copper in water samples, 370 (1998) 151
- Determination of small quantities of heavy metals in water-soluble salts and natural water by X-ray fluorescence, 371 (1998) 105
- Determination of inorganic and organic mercury compounds by capillary gas chromatography coupled with atomic absorption spectrometry after preconcentration on dithizone-anchored poly(ethylene glycol dimethacrylate-hydroxyethylmethacrylate) microbeads, 371 (1998) 177
- Determination of metals in highly saline matrices by solid-phase extraction and slurry-sampling inductively coupled plasma-atomic emission spectrometry, 375 (1998) 293
- Increased sensitivity in thick-target particle induced X-ray emission analyses using dry ashing for preconcentration, 378 (1999) 273
- Adsorption behavior of cobalt(II) on chitosan and its determination by tungsten metal furnace atomic absorption spectrometry, 378 (1999) 279
- Zeolite-modified electrodes in electroanalytical chemistry, 384 (1999) 1
- Determination of the pesticide Naptalam, at the ppb level, by FIA with fluorimetric detection and on-line preconcentration by solid-phase extraction on C<sub>18</sub> modified silica, 384 (1999) 185
- Selective monitoring of Cu<sup>(II)</sup> species using a silica modified carbon paste electrode, 385 (1999) 79
- Selenium speciation with on-column preconcentration high-performance liquid chromatography atomic fluorescence spectrometry using ultrasonic nebulization technique, 386 (1999) 89
- Homogeneous liquid–liquid extraction of uranium(VI) from acetate aqueous solution, 387 (1999) 71
- Separation and preconcentration of fluoride at the ng ml<sup>-1</sup> level with a polymer complex of zirconium(IV) followed by potentiometric determination in a flow system, 388 (1999) 201
- Adsorptive separation of some metal ions by complexing agent types of chemically modified chitosan, 388 (1999) 209
- Combination of flow injection with capillary electrophoresis.. Part 5. Automated preconcentration and determination of pseudoephedrine in human plasma, 394 (1999) 13
- Determination of small quantities of phenol in water, 396 (1999) 317 Immuno affinity extraction of pesticides from surface water, 399 (1999) 69
- Trends of flow injection sample pretreatment approaching the new millennium, 400 (1999) 233

### Preconcentration and determination

On-line preconcentration system for lanthanum determination in urine using FI-ICP-AES, 366 (1998) 201

# Preconcentration into the aggregate film

Novel preconcentration technique for trace metal ions by aggregate film formation. Spectrophotometric determination of copper(II), 364 (1998) 13

# Preconcentration-separation

Synthesis and efficiency of a spherical macroporous epoxy-imidazole complexing resin for preconcentrating trace noble metal ions, 354 (1997) 143

# Preconcentrator adsorbent

Analyzing organic vapors in exhaled breath using a surface acoustic wave sensor array with preconcentration: Selection and characterization of the preconcentrator adsorbent, 371 (1998) 131

#### Precursor

Liquid chromatography of peptides treated with fluorogenic reagents and its application to analyses of opioid peptides, their precursors and related enzymes in rat brain, 352 (1997) 103

#### Pre-cut system

Determination of nitrogen in uranium-plutonium mixed oxide fuel by gas chromatography after fusion in an inert gas atmosphere, 345 (1997) 131

#### Prediction

Selectivity optimization after prediction of the migration behaviour of anions in capillary ion analysis in the presence of micelles, 310 (1995) 27

Computer-assisted IR spectra prediction – linked similarity searches for structures and spectra, 348 (1997) 327

Detection of prediction outliers and inliers in multivariate calibration, 388 (1999) 283

### **Prediction models**

Local prediction models by principal component regression, 348

# Preferential solvation

Variation of acidity constants and pH values of some organic acids in water-2-propanol mixtures with solvent composition. Effect of preferential solvation, 302 (1995) 109

Ionic equilibria in aqueous organic solvent mixtures The dissociation constants of acids and salts in tetrahydrofuran/water mixtures, 340 (1997) 133

Acid-base behaviour of tripeptides in solvents used in liquid chromatography. Correlation between pK values and solvatochromic parameters of acetonitrile-water mixtures, 347 (1997) 295

Dissociation constants of several non-steroidal anti-inflammatory drugs in isopropyl alcohol/water mixtures, 350 (1997) 249

# Pre-formed mercury complexes

Supercritical fluid extraction of mercury(II) ion via in situ chelation and pre-formed mercury complexes from different matrices, 379 (1999) 1

# Preparative electrophoresis

Electrophoretic methods for the isolation and characterization of enzymes, 383 (1999) 109

### Preservation

Studies of preservation of water samples for the determination of non-ionic surfactants, 311 (1995) 31

#### Pressure

Effect of pressure-induced ionization, partitioning, and complexation on solute retention in reversed-phase liquid chromatography, 397 (1999) 163

# Pressure effects

Effect of pressure on the potentiometric response of ion-selective electrodes and reference electrodes, 320 (1996) 69

#### Pressure limitations

Capillary flow injection: Performance under pressure, 366 (1998) 305

# Pressure/temperature-controlled microwave mineralization

Anodic stripping voltammetric determination of total lead in anencephalic fetuses after pressure/temperature-controlled microwave mineralization, 317 (1995) 311

### Pressure-induced flow

An investigation of internal pressures in capillary flow injection systems, 358 (1998) 95

### Pressurized mineralization

Three pressurized mineralization procedures that permit subsequent flame atomic spectrometric determination of Ca, Fe, K, Mg and Zn in bovine blood plasma-containing cookies and in standard reference materials, 306 (1995) 139

#### Pretreatment

The robust normal variate transform for pattern recognition with near-infrared data, 382 (1999) 87

# Primary and secondary amines

Characterization of the fluorescence properties of 4-fluoro-7-nitrobenzo-2-oxa-1,3-diazole derivatives of some primary and secondary sympathomimetic amines, 365 (1998) 169

# Principal component analysis

Detection of effects of ozone on birch, Betula pendula Roth., by chemometrical evaluation of concentrations of lipid components in leaves, 304 (1995) 209

Random error bias in principal component analysis. Part I. derivation of theoretical predictions, 304 (1995) 257

Random error bias in principal component analysis. Part II. Application of theoretical predictions to multivariate problems, 304 (1995) 273

Comparison of multivariate methods based on latent vectors and methods based on wavelength selection for the analysis of nearinfrared spectroscopic data, 304 (1995) 285

Comparison of thermogravimetric and differential scanning calorimetric results for cellulosic fabrics by chemometrics, 304 (1995)

Classification of airborne particles by analytical scanning electron microscopy imaging and a modified Kohonen neural network (3MAP), 310 (1995) 1

A near-infrared reflectance analysis method for the noninvasive identification of film-coated and non-film-coated, blister-packed tablets, 310 (1995) 43

A study of Roman pottery (terra sigillata) using hierarchical fuzzy clustering, 310 (1995) 269

- Study of acid-base properties of fulvic acids using fluorescence spectrometry and multivariate curve resolution methods, 310 (1995) 473
- Variable alignment of high resolution data by cluster analysis, 310 (1995) 485
- Eigenstructure tracking analysis for assessment of peak purity in high-performance liquid chromatography with diode array detection, 314 (1995) 131
- Using multivariate methods on solid-state <sup>13</sup>C NMR data of complex materials, 315 (1995) 1
- Spectral transformation and wavelength selection in near-infrared spectra classification, 315 (1995) 243
- Calibration line adjustment to facilitate the use of synthetic calibration samples in near-infrared spectrometric analysis of pharmaceutical production samples, 315 (1995) 257
- Multivariate statistical analysis characterization of applicationbased ion mobility spectra, 316 (1995) 1
- Thin layer chromatography and principal component analysis for the study of the interaction of amino acids with some antisense nucleosides, 316 (1995) 105
- Simple encoding of infrared spectra for pattern recognition Part 2. Neural network approach using back-propagation and associative Hopfield memory, 316 (1995) 145
- Reduction of error propagation due to normalization: effect of error propagation and closure on spurious correlations, 316 (1995) 205
- How chemometrics can helpfully assist in evaluating environmental data. Lagoon water, 317 (1995) 53
- Ancient resinous substances characterisation, an approach by principal component analysis, 317 (1995) 65
- Multivariate calibrations in Fourier transform infrared spectrometry for prediction of kerosene properties, 317 (1995) 95
- Characterization of wheat by four analytical parameters. A chemometric study, 331 (1996) 43
- Principal component analysis for resolving coeluting substances in gas chromatography-mass spectrometry doping control analysis, 331 (1996) 53
- Neural network learning to non-linear principal component analysis, 336 (1996) 209
- Linear and non-linear modelling techniques for the investigation of spectrum-structure relationships, 348 (1997) 471
- Use of cluster and principal component analysis in quantitative structure-retention relationship study, 348 (1997) 481
- Linear data projection using a feedforward neural network, 348 (1997) 495
- Neural network based electronic nose for the classification of aromatic species, 348 (1997) 503
- Applications of maximum likelihood principal component analysis: incomplete data sets and calibration transfer, 350 (1997) 341
- Enhanced selectivity of MOSFET gas sensors by systematical analysis of transient parameters, 353 (1997) 291
- Multivariate data analysis as a tool for evaluating emission intensity, background equivalent concentration and detection limit obtained for different plasma positions in direct current plasmatomic emission spectrometry, 354 (1997) 211
- Characterization of fatty acids composition in vegetable oils by gas chromatography and chemometrics, 358 (1998) 163

- On-line monitoring of a cultivation using an electronic nose, 361 (1998) 223
- Assessment of a screening method for metals in seawater based on the non-selective reagent 4-(2-pyridylazo)resorcinol (PAR), 371 (1998) 227
- A method for the determination of reaction mechanisms and rate constants from two-way spectroscopic data, 373 (1998) 83
- Window target-testing factor analysis: theory and application to the chromatographic analysis of complex mixtures with multiwavelength fluorescence detection, 389 (1999) 95
- Statistical evaluation of data obtained by inductively coupled plasma atomic emission spectrometry (ICP-AES) for archaeological copper ingots, 389 (1999) 141

# Principal component analysis and detection limit

Treatment of responses below the detection limit: some current techniques compared by Factor Analysis on environmental data, 354 (1997) 255

# Principal component regression

- Selection of calibration mixtures and wavelengths for different multivariate calibration methods, 313 (1995) 93
- Calibration of an array of voltammetric microelectrodes, 334 (1996)
- Assessing the validity of principal component regression models in different analytical conditions, 337 (1997) 287
- Simultaneous spectrophotometric determination of ethinylestradiol and levonorgestrel by partial least squares and principal component regression multivariate calibration, 340 (1997) 257
- Local prediction models by principal component regression, 348 (1997) 29
- Linear and non-linear multivariate analysis in the quality control of industrial titanium dioxide white pigment, 348 (1997) 87
- Spectroscopic prediction of nonlinear properties by principal component regression, 348 (1997) 345
- Calibration transfer from a scanning near-IR spectrophotometer to a FT-near-IR spectrophotometer, 349 (1997) 263
- Development of a method for the systematic use of bilinear multivariate calibration methods for the correction of interferences in inductively coupled plasma-mass spectrometry, 358 (1998)
- Quantitative multicomponent analysis of polycyclic aromatic hydrocarbons in water samples, 361 (1998) 233
- Artificial neural networks (ANNs) in the analysis of polycyclic aromatic hydrocarbons in water samples by synchronous fluorescence, 384 (1999) 261
- Correction of non-linearities in spectroscopic multivariate calibration by using transformed original variables. Part II. Application to principal component regression, 389 (1999) 115
- Spectrophotometric resolution of ternary mixtures of Tartrazine, Patent Blue V and Indigo Carmine in commercial products, 391 (1999) 353

### **Principal components**

Data correlation, number of significant principal components and shape of molecules. The K correlation index, 348 (1997) 419

### Principal factor analysis

A factor analysis approach to the study of the eutrophication of a shallow, temperate lake (San Daniele, North Eastern Italy), 306 (1995) 99

Chemometric analysis and extraction processes of mandarin essential oils, 312 (1995) 199

# **Printing plates**

Flow-through tubular ion-selective electrodes responsive to anionic surfactants for flow-injection analysis, 308 (1995) 115

# Priority pollutant phenols

An ion-interaction RP-HPLC method for the determination of the eleven EPA priority pollutant phenols, 346 (1997) 61

### Priority pollutants

Multivariate data analysis of key pollutants in sewage samples: a case study, 393 (1999) 181

# Probabilistic neural networks

A comparison study of chemical sensor array pattern recognition algorithms, 384 (1999) 305

# Probability

Predicting chance infrared spectroscopic matching frequencies, 370 (1998) 181

# Probe geometry

A review of microdialysis sampling for pharmacokinetic applications, 379 (1999) 227

### Procainamide

Ion-selective electrode for procainamide determination in blood serum, 312 (1995) 35

# Process analysis

Development of enzyme cartridge flow-injection analysis for industrial process monitoring. Part II. Application for monitoring of microorganism cultivations, 302 (1995) 289

Immunobased elution assay for process control, 309 (1995) 301
 Combination of flow injection with capillary electrophoresis. Part 4.
 Automated multicomponent monitoring of drug dissolution, 376 (1998) 209

A compact titration configuration for process analytical applications, 378 (1999) 211

# Process analysis/on-line analysis

Development of an improved on-line chromatographic monitor with new methods for environmental and process control, 310 (1995) 79

### **Process control**

Voltammetry with programmed baseline compensation, 324 (1996) 135

Application of Radial Basis Functions - Partial Least Squares to nonlinear pattern recognition problems: diagnosis of process faults, 331 (1996) 187

# Process monitoring

Development of biosensors based on an electrolyte isolator semiconductor (EIS)-capacitor structure and their application for process monitoring Part I. Development of the biosensors and their characterization, 317 (1995) 259

Monitoring time-varying concentrations in sample streams by multiple input chromatography, 346 (1997) 285

The influence of metabolites on enzyme based flow injection analysis, 355 (1997) 55

Monitoring of randomly varying chemical processes by correlation chromatography, 373 (1998) 175

# Process streams

Determination of codeine in process streams using flow-injection analysis with chemiluminescence detection, 318 (1996) 309

#### Procymidone

Determination of Procymidone in vegetables by a commercial competitive inhibition enzyme immunoassay, 311 (1995) 371

Resolution of overlapping peaks in HPLC with diode array detection by application of partial least squares calibration to cross-sections of spectrochromatograms, 348 (1997) 177

### Proficiency testing

Inter-laboratory, time, and fitness-for-purpose aspects of effective validation, 391 (1999) 159

### Progesterone

Affinity between immobilised monoclonal and polyclonal antibodies and steroid-enzyme tracers increases sharply at high surface density, 381 (1999) 133

#### Program

Global treatment of chromatographic data with MICHROM, 348 (1997) 187

# Projection

General type of a uniform and reversible representation of chemical structures, 348 (1997) 409

### Proline

Nuclear magnetic resonance spectroscopic analysis of the selective complexation of the cis and trans isomers of phenylalanylproline by β-cyclodextrin, 307 (1995) 449

# Proline-containing peptides

High performance liquid chromatographic determination of peptidase activity toward proline-containing peptides, 352 (1997) 179

### Proline-specific peptidases

High performance liquid chromatographic determination of peptidase activity toward proline-containing peptides, 352 (1997) 179

### Promazine

Second derivative spectrophotometric determination of partition coefficients of chlorpromazine and promazine between lecithin bilayer vesicles and water, 304 (1995) 101

# Promethazine

Use of a stopped-flow/T-format spectrofluorimeter for simultaneous kinetic analyses, 310 (1995) 453

# Promethazine and D,L-α-amino-β-[4-(1,2-dihydro-2-oxo-quinoline)] propionic acid (AOQ)

Enantiomeric separation of promethazine and p.t.-α-amino-β-[4-(1,2-dihydro-2-oxo-quinoline)] propionic acid drugs by capillary zone electrophoresis using albumin as chiral selectors, 392 (1999) 175

#### Prometrine

Voltammetric determination of Prometrine in soil and water, 305 (1995) 207

# Propanil

Amperometric sensor for Propanil, 320 (1996) 263

#### 1-Propanol

Introduction of alcohols in inductively coupled plasma mass spectrometry by a flow injection system, 379 (1999) 175

### Propan-2-ol/water mixtures

Conductometric determination of dissociation constants of several acids and their tetrabutylammonium salts in propan-2-ol/water mixtures, 333 (1996) 241

### **Propazine**

Hapten design for compound-selective antibodies: ELISAS for environmentally deleterious small molecules, 376 (1998) 83

# Property prediction

Prediction of physical properties of fabrics using DRIFT spectroscopy and thermal analysis, 332 (1996) 105

### Propionic acid

Automated analysis of low-molecular weight organic acids in ambient air by a microporous tube diffusion scrubber system coupled to ion chromatography, 353 (1997) 227

# **Proportional equations**

Chemometric study of differential kinetic analysis by the method of proportional equations, 322 (1996) 195

# Propoxur

Clean analytical method for the determination of propoxur, 308 (1995) 462

# Propranolol

Simultaneous determination of atenolol, propranolol, dipyridamole and amiloride by means of non-linear variable-angle synchronous fluorescence spectrometry, 370 (1998) 9

# Propyl gallate

Simultaneous kinetic determination of butylated hydroxyanisole and propyl gallate by coupling stopped-flow mixing technique and diode-array detection, 354 (1997) 173

Artificial neural networks and multivariate calibration for spectrophotometric differential kinetic determinations of food antioxidants, 396 (1999) 221

# Propylene carbonate

Spectrophotometric determination of bismuth in pharmaceutical samples by extraction of the tetraiodobismuthate(III) anion into propylene carbonate, 337 (1997) 113

Spectrophotometric determination of chromium(VI) by extraction of the dichromate anion into propylene carbonate, 356 (1997) 145

# Prostate-specific antigen

Immunoassay on a single microparticle: the effect of particle size and number on a miniaturized time-resolved fluorometric assay of free prostate-specific antigen, 387 (1999) 11

### Prostatic acid phosphatase

Highly sensitive immunological assays for human chorionic gonadotrophin and prostatic acid phosphatase using phenacyl phosphate as a chemiluminescent label, 309 (1995) 221

#### Protactinium

Behaviour of Zr, Hf, Nb, Ta and Pa on macroporous anion exchanger in chloride–fluoride media, 374 (1998) 149

#### Protease inhibitors

Gel electrophoresis of proteolytic enzymes, 372 (1998) 173

# Protease/protease inhibitor complexes

Gel electrophoresis of proteolytic enzymes, 372 (1998) 173

#### Proteases

 On-line and off-line monitoring of the production of alkaline serine protease by Bacillus licheniformis, 317 (1995) 247
 Gel electrophoresis of proteolytic enzymes, 372 (1998) 173

#### τ protein

Serum stability of phosphopeptides, 352 (1997) 319

### Protein analysis

Capillary isoelectric focusing with whole column detection and a membrane sample preparation system, 383 (1999) 67

# Protein coupling to gold

Capture agents for a quartz crystal microbalance-continuous flow biosensor: functionalized self-assembled monolayers on gold, 399 (1999) 51

# Protein determination

Inaccuracy of the Bradford method for the determination of protein concentration in steroid-horseradish peroxidase conjugates, 337 (1997) 93

### Protein hydrolysates

Analysis of peptides from bovine hemoglobin and tuna myoglobin enzymatic hydrolysate: use of HPLC with on-line second-order derivative spectroscopy for the characterization of biologically active peptides, 352 (1997) 201

### Protein hydrolysis

Hydrolysis of proteins performed at high temperatures and for short times with reduced racemization, in order to determine the enantiomers of D - and L-amino acids, 339 (1997) 99

# Protein patterning

Simultaneous determination of follicle stimulating hormone and luteinising hormone using a multianalyte immunosensor, 310 (1995) 251

### Protein solubilizers

Isoelectric focusing of proteins and peptides in gel slabs and in capillaries, 372 (1998) 1

#### Protein structure

Denaturant-gradient gel electrophoresis: technical aspects and practical applications, 372 (1998) 99

#### Protein synthesis

Characterisation of bacterial proteomes by two-dimensional electrophoresis, 372 (1998) 121

#### **Proteins**

The electrochemical behaviour of Cd,Zn thioneins depending on the solution pH using differential pulse polarography, 305 (1995) 285

Capillary electrophoresis in speciation analysis. Investigations of metal-polyaminopolycarboxylate complexes and effects of metals on proteins, 306 (1995) 91

High molecular weight polyarginine as a capillary coating for separation of cationic proteins by capillary electrophoresis, 307 (1995) 193

Improved quantification of stress proteins by western blotting, 311 (1995) 109

Pulsed electrochemical detection of proteins using conducting polymer based sensors, 315 (1995) 27

Determination of proteins by fluorescence quenching of erythrosin B, 333 (1996) 83

Microdetermination of proteins by Rayleigh light scattering technique with acid green 25, 338 (1997) 255

Calibration methods for determination of ammonium and excess acid in Kjeldahl digests by flow injection analysis, 343 (1997) 183

Characterisation and analytical use of a polypyrrole electrode containing anti-human serum albumin, 371 (1998) 39

Applications of gel electrophoresis in the determination of proteinlow  $M_r$  substances and protein-protein interactions, 372 (1998) 67

Pore gradient gel electrophoresis: theory, practice, and applications, 372 (1998) 91

Denaturant-gradient gel electrophoresis: technical aspects and practical applications, 372 (1998) 99

Comparison of microscale cleaning procedures for (Glyco) proteins prior to positive ion matrix-assisted laser desorption ionization mass spectrometry, 372 (1998) 187

Adaptation of pulsed-field gel electrophoresis for the improved fractionation of spheres, 372 (1998) 299

Surface deactivation in protein and peptide analysis by capillary electrophoresis, 383 (1999) 1

Strategies for analysis of electrophoretically separated proteins and peptides, 383 (1999) 27

Affinity capillary electrophoresis of proteins and peptides, 383 (1999) 61

Application of electrophoresis and related methods, such as western blotting and zymography to the study of some proteins and enzymes, 383 (1999) 119

Investigation of metallodrug-protein interactions by size-exclusion chromatography coupled with inductively coupled plasma mass spectrometry (ICP-MS), 387 (1999) 135 A novel method for the determination of protein utilizing 4-azochromotropic acid phenylfluorone-molybdenum(VI) complex, 396 (1999) 83

Study on the interaction of protein with Sulfonazo III by Rayleigh light scattering technique and its application, 398 (1999) 319

# Proteolytic digestion

Determination of polynuclear aromatic hydrocarbons in human blood serum by proteolytic digestion — direct immersion SPME, 396 (1999) 303

# Proteolytic enzymes

Monitoring proteolytic enzymes for health and safety in the manufacturing environment. A review, 347 (1997) 235

#### Proteome

Characterisation of bacterial proteomes by two-dimensional electrophoresis, 372 (1998) 121

#### **Proteomics**

Electrophoretic analyses of clotting factor VIII concentrates, 372 (1998) 219

Evaluation of commonly used electrophoretic methods for the analysis of proteins and peptides and their application to biotechnology, 383 (1999) 47

# Prothiofos (O-(2,4-dichlorophenyl) O-ethyl S-propyl phosphorodithioate)

Determination of histamine release from mast cells using a histamine-sensitive membrane electrode, 396 (1999) 189

# **Protolytes**

Selective determination of protolytes by flow injection analysis. A guide for the rational selection of reagent composition, 344 (1997) 271

### **Protolytic constants**

Spectrophotometric study of the solubility and the protolytic properties of 1-(2-pyridylazo)-2-naphthol in different ethanol-water solutions, 360 (1998) 153

# Proton affinities and deprotonation enthalpies

Application of semiempirical method (AMI) to the study of tautomeric equilibria in the gas phase for simple compounds containing the amidine group: 4(5)-substituted imidazoles, 348 (1997) 431

### Proton exchange

Conjugation and proton exchange equilibria: an electrometric method for determination of heteroconjugation constants in solvents of weak proton donating and weak proton accepting properties, 384 (1999) 27

# Protonated amines

Dissociation constants of neutral and charged acids in methyl alcohol. The acid strength resolution, 374 (1998) 309

### Protonation

Spectrofluorimetric study of the acid-base equilibria and complexation behavior of the fluoroquinolone antibiotics ofloxacin, norfloxacin, ciprofloxacin and pefloxacin in aqueous solution, 354 (1997) 197

#### Protonation constants

Tautomeric and protonation equilibria of Schiff bases of salicylaldehyde with aminopyridines, 343 (1997) 135

Protonation constants of some N-substituted thiophene-2-carboxamidoximes, 392 (1999) 343

# Proton-dissociable chromophore

Synthesis and cation-extraction study of chromogenic 14-crown-4 derivatives for spectrophotometric determination of lithium, 375 (1998) 81

### Protriptyline

The spectrophotometric determination of bismuth after extraction of protriptylinium tetraiodobismuthate(III), 334 (1996) 209

# Protriptyline hydrochloride

Spectrophotometric determination of perchlorate after extraction as protriptylinium perchlorate, 356 (1997) 141]

# Protriptylinium dichromate extraction

Spectrophotometric determination of chromium(VI) by extraction of protriptylinium dichromate, 319 (1996) 205

# Pruning

The optimal brain surgeon for pruning neural network architecture applied to multivariate calibration, 375 (1998) 187

#### Prussian blue

Amperometric biosensors based on the immobilization of oxidases in a Prussian blue film by electrochemical codeposition, 310 (1995) 429

Disposable integrated cuvette test for quantitative determination of vitamin C in pharmaceutical products, 379 (1999) 69

# PsaA/B polypeptides

Rapid method for assay of quantitative binding of soluble proteins and photosynthetic membrane proteins on poly(vinylidene difluoride) membranes, 365 (1998) 109

# Pseudoephedrine

Combination of flow injection with capillary electrophoresis. Part 3.
On-line sorption column preconcentration capillary electrophoresis system, 355 (1997) 135

Combination of flow injection with capillary electrophoresis.. Part 5. Automated preconcentration and determination of pseudoephedrine in human plasma, 394 (1999) 13

# Pseudo-equilibrium option

Evaluation of alternative measurement and data-processing options for enzyme-based biosensors, 388 (1999) 231

# Pseudoknot structure

Minimization of genomic human hepatitis delta virus ribozyme, 365 (1998) 309

# Pseudomonas aeruginosa alkaline protease

Spectrophotometric assay for amidolytic activity of alkaline protease from Pseudomonas aeruginosa, 345 (1997) 219

### Pseudomonas aeruginosa elastase

Use of conductimetry for the monitoring of thermodynamicallycontrolled enzymatic peptide synthesis, 312 (1995) 213

### Pseudomonas rathonis T

The amperometric biosensor for detection of sodium dodecyl sulfate, 347 (1997) 19

# Pseudomonas syringae

Additional evidence of the operational character of the lability of complexes of copper(II) with simple organic ligands, 333 (1996) 97

### Pseudorank estimation

Critical evaluation of two F-tests for selecting the number of factors in abstract factor analysis, 337 (1997) 57

### Pseudo-total analysis (PTA)

Pseudo-total analysis for metallic elements in siliceous soil by acid digestion and flame atomic absorption spectrometry, 396 (1999) 293

#### Psoralen

Affinity adsorption separation of mutagenic molecules by polyacrylamide hydrogels comprising double-stranded DNA, 365 (1998) 101

# Pt(en) guanosine complexes

Liquid chromatographic and infrared studies on ethylenediamineplatinum(II) guanosine complexes, 324 (1996) 155

# p-tert-Butylcalix[8]arene

Synthesis and metal sorption studies of p-tert-butylcalix[8]arene chemically bound to polymeric support, 335 (1996) 283

# PTFE

Factor analysis of time domain NMR data: crystallinity of poly(tetrafluoroethene), 344 (1997) 261

Factor analysis of simulated time domain NMR data for semicrystalline polymers, 356 (1997) 27

Sampling aerosols for lead isotopes on a global scale, 390 (1999)

# PTFE tubing

Evaluation of the adsorptive immobilisation of horseradish peroxidase on PTFE tubing in flow systems for hydrogen peroxide determination using fluorescence detection, 359 (1998) 149

# p-Toluene-sulfonic acid

Development of a monitoring tape for nitrogen dioxide in air, 321 (1996) 41

# Pulp and paper mill processes

Determination of EDTA and DTPA as their Fe(III) complexes in pulp and paper mill process and waste waters by liquid chromatography, 303 (1995) 187

# Pulps

Impedance studies of the adsorption of hydrophobic and hydrophylic species on mineral pulps, 305 (1995) 265

### Pulse generator

The fabrication and performance of an Ag/AgCl reference electrode in human serum, 330 (1996) 167

# Pulse polography

Determination of stability constants of labile heterogeneous complexes using differential pulse polarography and anodic stripping voltammetry, 384 (1999) 17

### Pulse shape discrimination (PSD)

Simultaneous measurement of <sup>226</sup>Ra and <sup>133</sup>Ba using liquid scintillation counting with pulse shape discrimination, 332 (1996) 291

# Pulsed amperometric detection

Determination of the antioxidant Irganox 1076 by anodic voltammetry and flow injection with pulsed amperometric detection at a glassy carbon electrode, 305 (1995) 324

Determination of imidacloprid and its major metabolite in soils by liquid chromatography with pulsed reductive amperometric detection, 349 (1997) 199

Pulsed electrochemical technique for monitoring antibody-antigen reactions at interfaces, 376 (1998) 125

#### Pulsed electrochemical detection

Pulsed electrochemical detection of thiocompounds following microchromatographic separations, 307 (1995) 301

Pulsed electrochemical detection at gold electrodes applied to monoamines and diamines following their chromatographic separation, 322 (1996) 55

### Pulsed flow

Continuous, pulsed and stopped flow in a µ-flow injection system (numerical vs experimental), 378 (1999) 111

# Pulsed laser

Application of photoacoustic spectrometry to flow-injection analysis, 308 (1995) 20

Monitoring supercritical fluid extraction by thermal lens spectrometry with pulsed laser excitation, 390 (1999) 163

### Pumpkin seeds

Clinical analysis of urea in human blood by coupling a surface acoustic wave sensor with urease extracted from pumpkin seeds, 307 (1995) 61

### PUR

Biomarkers of toluene diisocyanate and thermal degradation products of polyurethane, with special reference to the sample preparation, 333 (1996) 277

### Pure water

Separation of nucleosides and their bases by reversed-phase liquid chromatography using pure water as the mobile phase, 353 (1997) 143

# Purge and cryogenic trapping

Sampling and probing volatile metal(loid) species in natural waters by in-situ purge and cryogenic trapping followed by gas chromatography and inductively coupled plasma mass spectrometry (P-CT-GC-ICP/MS), 377 (1998) 241

# Purge and trap chromatography

A dual arsenic speciation system combining liquid chromatographic and purge and trap-gas chromatographic separation with atomic fluorescence spectrometric detection, 358 (1998) 51

#### Purification

Immunoaffinity column chromatography against forskolin using an anti-forskolin monoclonal antibody and its application, 335 (1996) 63

Selective purification of synthetic proteins by the use of FMOC- and biotin-based reversible chromatographic probes, 352 (1997) 375 Development of anti-phenylurea antibody purification techniques

Development of anti-phenylurea antibody purification techniques for improved environmental applications, 376 (1998) 41

#### Purine bases

Determination of purine bases by capillary zone electrophoresis with wall-jet amperometric detection, 335 (1996) 95

### Purity analysis

Multiwavelength fluorescence detection for purity analysis of fluorescence agents using capillary electrophoresis with a chargecoupled device, 322 (1996) 187

#### Putrescine

Direct evaluation of meat spoilage and the progress of aging using biosensors, 320 (1996) 269

#### PVC

Determination of the antioxidant Irganox 1076 by anodic voltammetry and flow injection with pulsed amperometric detection at a glassy carbon electrode, 305 (1995) 324

Determination of pesticides in water using ATR-FTIR spectroscopy on PVC/chloroparaffin coatings, 334 (1996) 85

A study of the permeability properties of surfactant modified poly(vinyl chloride) membranes, 350 (1997) 67

Lead-selective electrode by using benzyl disulphide as ionophore, 378 (1999) 145

Estimation of lactate in meat extracts by screen-printed sensors, 386 (1999) 7

# **PVC** biosensor

Surfactant-modified poly(vinyl chloride) membranes as biocompatible interfaces for amperometric enzyme electrodes, 350 (1997)

## **PVC** membrane ammonium electrodes

Study of the temperature behaviour of all-solid-state nonactin ammonium electrodes with PVC membrane applied to graphite-epoxy supports of varied composition, 355 (1997) 241

# **PVC** membrane electrodes

Sulfate-selective PVC membrane electrodes based on a derivative of imidazole as a neutral carrier, 382 (1999) 165

# **PVC** membranes

Potentiometric membrane sensors for the selective determination of cinnarizine in pharmaceutical preparations, 321 (1996) 47

Fluorescent potential-sensitive dyes for use in solid state sensors for potassium ion, 334 (1996) 125

Lead ion-selective membrane electrodes based on some recently synthesized 9,10-anthraquinone derivatives, 360 (1998) 203

- Determination of metformin in pharmaceutical preparations using potentiometry, spectrofluorimetry and UV-visible spectrophotometry, 378 (1999) 299
- Silver(I)-selective membrane electrode based on hexathia-18crown-6, 381 (1999) 111

### **PVC-graphite**

- A PVC-graphite composite electrode for electroanalytical use. Preparation and some applications, 355 (1997) 23
- A poly(vinyl choloride) graphite composite electrode for flowinjection amperometric determination of antioxidants, 395 (1999) 217

# **PVC-matrix** membranes

PVC-matrix membrane ion-selective sensors for gold determination in cyanide solutions, 357 (1997) 231

#### **PVP** membrane

Conductometric urea sensor. Use of additional membranes for the improvement of its analytical characteristics, 321 (1996) 35

# P2W18O6-62/PPy/GC electrode

Liquid chromatography-amperometric detection of nitrite using a polypyrrole modified glassy carbon electrode doped with tungstodiphosphate anion, 345 (1997) 147

#### **Pyraclofos**

Analysis of pyraclofos in crops by the Swedish National Food Administration gas chromatographic multiresidue methodology, 338 (1997) 63

### **Pyrazines**

Simultaneous polarographic analysis of pyrazine and its methyl derivatives by iterative target transformation factor analysis, 316 (1995) 233

# Pyrene

- Effects of photochemical reactions of pyrene in alcohol and aqueous solvent systems on spectroscopic analyses, 319 (1996) 379
- Water solubility enhancement of pyrene in the presence of humic substances, 337 (1997) 351
- Correction of fluorescence inner filter effects and the partitioning of pyrene to dissolved organic carbon, 338 (1997) 155
- Immunoaffinity chromatography of polycyclic aromatic hydrocarbons in columns prepared by the sol-gel method, 339 (1997) 241
- An approach for monitoring subcritical water extraction kinetics of fluorescent analytes, 342 (1997) 215
- A modified enzyme-linked immunosorbent assay (ELISA) for polyaromatic hydrocarbons, 399 (1999) 127

# Pyrene fluorescence

Immobilization of aqueous pyrene by dissolved humic acid, 356 (1997) 295

# Pyrethroid insecticides

Determination of pyrethroid insecticides by ion trap GC-MS-MS, 317 (1995) 137

#### **Pyrethroids**

Homogeneous enzyme immunoassay for pyrethroid pesticides and their derivatives using bacillary alpha-amylase as label, 347 (1997) 131

#### Pyridine N-oxides

- Studies on correlations of acid-base properties of substituted pyridine N-oxides in solutions. Part 1. Correlations of the pK<sub>a</sub> values in non-aqueous solvents and water, 321 (1996) 237
- Studies on correlations of acid-base properties of substituted pyridine N-oxides in solutions. Part 2: Correlations of the pK<sub>a</sub> values in non-aqueous media, 329 (1996) 267
- Studies on correlations of acid-base properties of substituted pyridine N-oxides in solutions. Correlations of cationic homoconjugation constants and pK<sub>a</sub> values in non-aqueous media, 334 (1996) 155
- A potentiometric study of acid-base equilibria of substituted pyridine N-oxides in nitrobenzene, 335 (1996) 147
- A potentiometric study of cationic heteroconjugation equilibria in systems with substituted pyridine N-oxides in nitrobenzene, 336 (1996) 107
- A study of cationic heteroconjugation equilibria of substituted pyridine N-oxides in acetonitrile, 338 (1997) 261

# Pyridine solvent

Potentiometric determination of relative basicities of aliphatic amines in pyridine, 324 (1996) 57

#### **Pyridines**

A potentiometric study of acid-base equilibria of substituted pyridines in acetonitrile, 381 (1999) 215

# Pyridoxal-5'-phosphate

Application of micellar effects to the simultaneous kinetic determination of pyridoxal and pyridoxal-5'-phosphate, 345 (1997) 87

# 3-(2-Pyridyl)-5,6-diphenyl-1,2,4-triazine (PDT)

Chromogenic reagents for iron(II): studies in the 1,2,4-triazine series, 322 (1996) 203

### 1-(2'-Pyridylazo)-2-naphthol

- PAN-incorporated Nafion-modified spectroscopic graphite electrodes for voltammetric stripping determination of lead, 369 (1998) 93
- Study of the extraction of 1-(2'-pyridylazo)-2-naphthol from ethanol-water solutions into Nafion R membranes, 392 (1999) 201

### 4-(2-Pyridylazo)resorcinol

- Determination of uranium in tin tailings using 4-(2-pyridylazo) resorcinol by flow-injection analysis, 314 (1995) 51
- Extraction of 4-(2-pyridylazo) resorcinol and 4-(2-thiazolylazo) resorcinol with chloroform and tetraphenylarsonium and phosphonium chlorides, 318 (1996) 345
- Assessment of a screening method for metals in seawater based on the non-selective reagent 4-(2-pyridylazo)resorcinol (PAR), 371 (1998) 227
- Application of Doehlert optimization and factorial designs in developing and validating a solid-phase spectrophotometric determination of trace levels of cadmium, 382 (1999) 117

Complexes of Zn(II) and Cd(II) with 4-(2-pyridylazo)resorcinol sorbed on sephadex QAE: characterization and theoretical study, 389 (1999) 281

# Pyridylazo-ligand

Acid-catalyzed interfacial complexation in the extraction kinetics of palladium(II) with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol, 364 (1998) 53

#### pyridylazo-resorcinol

The determination of vanadium(V) in the presence of vanadium(IV) using 4-(2-pyridylazo)resorcinol in a flow-injection manifold, 329 (1996) 275

# 2,2'-Pyridylbenzimidazole

Simple detector for oral malodour based on spectrofluorimetric measurements of hydrogen sulphide in mouth air, 398 (1999) 23

### Pyrite

Interaction of pyrite pulps with Ag\* and Hg<sup>2+</sup> ions. Electrochemical characterization of micrometric grains, 385 (1999) 467

# Pyrocatechol violet

Anion-exchange resin modified with pyrocatechol violet as a functional resin for retention of Sn(IV), 338 (1997) 231

Pyrocatechol Violet immobilized Amberlite XAD-2: synthesis and metal-ion uptake properties suitable for analytical applications, 340 (1997) 285

Kinetic and thermodynamic considerations in the determination of aluminium using pyrocatechol violet: implications for the use of 'kinetic-based' determinations of metal ions in natural systems, 359 (1998) 329

### Pyrodoxal

Application of micellar effects to the simultaneous kinetic determination of pyridoxal and pyridoxal-5'-phosphate, 345 (1997) 87

### Pyrogallol

Approaches to in-line removal of dissolved oxygen in flow systems for process analysis, 332 (1996) 31

Application of capillary electrophoresis for the determination of dissolved gases in water samples. I. Determination of dissolved oxygen, 356 (1997) 1

Flow injection chemiluminescence determination of pyrogallol, 368 (1998) 113

# Pyrogallol chemiluminescence

Determination of glucose and fructose in mixtures by a kinetic method with chemiluminescence detection, 398 (1999) 191

# Pyrogallol red

Determination of trace amounts of copper(II) by adsorptive stripping voltammetry of its complex with pyrogallol red, 385 (1999) 265

### Pyrolysis

Pyrolysis-gas chromatography-mass spectrometry characterization of wheat straw alkaline-cooking effluents after biological treatment with the fungi Phanerochaete chrysosporium and Ganoderma australe, 309 (1995) 145

Membrane interface for the direct coupling of pyrolysis and mass spectrometry, 313 (1995) 237 On-line determination of  $\delta^{18}O$  values of organic substances, 319 (1996) 159

Use of analytical pyrolysis for the characterization of paper industry effluents, 335 (1996) 245

Quality control of paints: Pyrolysis-mass spectrometry and chemometrics, 336 (1996) 201

Chemical characterization by pyrolysis/gas chromatography/mass spectrometry of acid-precipitable polymeric lignin (APPL) from wheat straw transformed by selected streptomyces strains, 345 (1997) 121

# Pyrolysis mass spectrometry

Rapid and quantitative analysis of metabolites in fermentor broths using pyrolysis mass spectrometry with supervised learning: application to the screening of Penicillium chrysogenum fermentations for the overproduction of penicillins, 313 (1995) 25

Classification of pyrolysis mass spectra by fuzzy multivariate rule induction-comparison with regression, K-nearest neighbour, neural and decision-tree methods, 348 (1997) 389

On mass spectrometer instrument standardization and interlaboratory calibration transfer using neural networks, 348 (1997) 511

Pyrolysis electron impact mass spectrometry in studying aquatic humic substances, 350 (1997) 241

Characterization of lake-aquatic humic matter isolated with two different sorbing solid techniques: pyrolysis electron impact mass spectrometry, 391 (1999) 331

# Pyrolysis-capillary gas chromatography

Study of soil humic substances by cross-polarization magic angle spinning <sup>13</sup>C nuclear magnetic resonance and pyrolysis-capillary gas chromatography, 378 (1999) 177

# Pyrrole derivatives

Development of amperometric biosensors based on the immobilization of enzymes in polymer films electrogenerated from a series of amphiphilic pyrrole derivatives, 311 (1995) 23

### Pyruvate

Plant tissue-based fiber-optic pyruvate sensor, 316 (1995) 57 Amperometric biosensors for L-alanine and pyruvate assays in biological fluids, 355 (1997) 235

### Pyruvate kinase

Mathematical model for the determination of enzyme activity based on enzymatic amplification by substrate cycling, 346 (1997) 215

# Pyruvate oxidase

A bienzyme modified carbon paste electrode for amperometric detection of pyruvate, 394 (1999) 233



### OCM

Characterization of a single-piece all-solid-state lithium-selective electrode based on soluble conducting polyaniline, 385 (1999) 163

# QCM sensor

Sulfate ion sensing based on a quartz-crystal microbalance immobilized with barium sulfate crystals grown on a self-assembled monolayer of phosphorylated 11-mercapto-1-undecanol, 375 (1998) 155

# QDA

Feature reduction by Fourier transform in pattern recognition of NIR data, 331 (1996) 75

### **OSAR**

QSAR study of inclusion complexes of heterocyclic compounds with β-cyclodextrin, 348 (1997) 489

Molecular challenges in modern chemometrics, 400 (1999) 413

### OSAR studies

Optimisation of structure representation for QSAR studies, 388 (1999) 243

### **QSRR**

Prediction of gas chromatographic retention indices of alkylbenzenes, 342 (1997) 113

### Quadratic discriminant analysis

Comparison of regularized discriminant analysis, linear discriminant analysis and quadratic discriminant analysis, applied to NIR data, 329 (1996) 257

# Quadruple ion trap mass spectrometry

Determination of benzophenone-3 and metabolites in water and human urine by solid-phase microextraction and quadrupole ion trap GC-MS, 371 (1998) 195

### **Oualification**

Application of a new automatic event-controlled sampler for heavy metals: studies on the behaviour of particle bound heavy metals in the Elbe estuary, 377 (1998) 263

# Qualimetry

A computer program for ranking analytical methods according to their fitness for purpose, 360 (1998) 215

# Qualitative analysis

Predicting chance infrared spectroscopic matching frequencies, 370 (1998) 181

# Quality assurance

Development and application of a standardized validation procedure for food chemistry laboratories, 391 (1999) 239

Quality assurance good practice for research and development and non-routine analysis, 393 (1999) 157

# Quality compromises

A computer program for ranking analytical methods according to their fitness for purpose, 360 (1998) 215

# Quality control

Quality control of paints: Pyrolysis-mass spectrometry and chemometrics, 336 (1996) 201

Linear and non-linear multivariate analysis in the quality control of industrial titanium dioxide white pigment, 348 (1997) 87

Validation and quality control schemes based on the expression of results with uncertainty, 393 (1999) 167

Evaluating the quality of oligonucleotides that are immobilized on glass supports for biosensor development, 395 (1999) 273

# Quality criteria

The quality of optimisation by genetic algorithms, 388 (1999) 265

# Quality metrics

Design and use of reference data sets for testing scientific software, 380 (1999) 339

#### Quanine

Post-source decay production studies of aniline and methylaniline adducts of deoxyguanosine, 397 (1999) 257

#### Quantification

Accurate quantification of quartz and other phases by powder X-ray diffractometry, 337 (1997) 233

Capillary electrophoresis for the determination of bromide, chloride and sulfate as impurities in calcium acamprosate, 381 (1999)

Detection and quantification limits: origins and historical overview, 391 (1999) 127

# Quantification capabilities

Nomenclature in evaluation of analytical methods including detection and quantification capabilities, 391 (1995) 105

# Ouantitation

Quantitation of metallothionein isoforms in mouse liver on capillary zone electrophoresis, 372 (1998) 241

Quantitation of quaternary ammonium compounds using electrospray mass spectrometry, 377 (1998) 39

# Quantitative analysis

Simultaneous determination of dithiocarbamates by capillary electrophoresis with diode array detection and using factor analysis, 339 (1997) 123

On the use of X-ray powder diffraction for determining low levels of chrysotile asbestos in gypsum-based bulk materials: use of a synchrotron source, 350 (1997) 221

IR quantitative analysis of organic mixtures without any calibration, 353 (1997) 105

Fourier transform infrared spectrometry (FTIR) for qualitative and quantitative analysis of azodicarboxamide and its potential impurities, 355 (1997) 7

A simplified calibration model of spectral data for quantitative analyses with different Raman spectrometers, 379 (1999) 159

# Quantitative chromatography

A computational study on the effect of random noise on the precision and accuracy of the integration of chromatographic peaks, 388 (1999) 187

# Quantitative determination

Qualitative and quantitative determination of oxygenates in gasolines using <sup>1</sup>H nuclear magnetic resonance spectroscopy, 391 (1999) 277

### **Quantitative EPR spectrometry**

- Quantitative electron paramagnetic resonance (EPR) spectrometry with a TE<sub>104</sub> double rectangular cavity Part 1. A simple alignment procedure for the precision positioning of the sample, 333 (1996) 249
- Quantitative electron paramagnetic resonance (EPR) spectrometry with a TE<sub>104</sub> double rectangular cavity Part 2. Analysis of sample and TE<sub>104</sub> cavity error sources associated with the movement of line-like samples into the TE<sub>104</sub> cavity, 333 (1996) 253
- Electron paramagnetic resonance signal intensity of a line-like sample with a variable length situated at an arbitrary position along the common sample-cavity axis. Theoretical prediction versus experimental measurement, 367 (1998) 233
- Analytical solution for the electron paramagnetic resonance signal intensity of a line-like sample of variable length whose centre is situated at an arbitrary position along the common sample–cavity x-axis, 373 (1998) 107

### **Quantitative** estimation

Quantitative determination of cyanobacteria in mixed phytoplankton assemblages by an in vivo fluorimetric method, 302 (1995)

# Quantitative millimetre wave spectroscopy

- Quantitative millimetre wave spectroscopy. Part II: Determination of working conditions in an open Fabry-Perot cavity, 312 (1995) 115
- Quantitative millimetre wave spectroscopy. Part III: Theory of spectral detection and quantitative analysis in a millimetre wave confocal Fabry-Perot cavity spectrometer, 319 (1996) 277

# Quantitative physicochemical analysis

Silica chemically modified with N-benzoyl-N-phenylhydroxylamine in chemisorption of hydrogen and metal ions, 379 (1999) 11

# Quantitative structure property relationships

- Octanol-water partition coefficients of substituted phenols and their correlation with molecular descriptors, 315 (1995) 193
- Quantitative structure-property relationships for colour reagents and their colour reactions with ytterbium using regression analysis and computational neural networks, 321 (1996) 97

# Quantitative structure-electrochemistry relationships

Quantitative structure-electrochemistry relationships of  $\alpha.\beta$ -unsaturated ketones, 305 (1995) 295

# Quantum efficiency

Effect of organic solvent on tris(2,2'-bipyridyl)ruthenium(III) chemiluminescent reactions in flowing streams, 334 (1996) 183

# Quantum mechanical molecular descriptors

Octanol-water partition coefficients of substituted phenols and their correlation with molecular descriptors, 315 (1995) 193

### Quartz

- Highly sensitive quartz crystal immunosensors for multisample detection of herbicides, 304 (1995) 139
- Accurate quantification of quartz and other phases by powder X-ray diffractometry, 337 (1997) 233

### Quartz crystal microbalance

- An electrochemical quartz crystal microbalance-based investigation of the properties displayed by electroactive polypyridine films, 305 (1995) 212
- Studies on polymer solutions, gels and grafted layers using the quartz crystal microbalance technique, 314 (1995) 23
- A quartz crystal microbalance displacement assay for Listeria monocytogenes, 325 (1996) 169
- Quantitative analysis for solid-phase hybridization reaction and binding reaction of DNA binder to hybrids using a quartz crystal microbalance, 327 (1996) 29
- Using the electrochemical quartz crystal microbalance as stripping detector. Application to trace mercury analysis, 329 (1996) 253
- Piezoelectric quartz crystal humidity sensor using chemically modified nitrated polystyrene as water sorbing coating, 332 (1996)
- Performance of a tetramethylammonium fluoride tetrahydrate coated piezoelectric crystal for carbon dioxide detection, 335 (1996) 235
- Electrochemical behavior of FAD at a gold electrode studied by electrochemical quartz crystal microbalance, 338 (1997) 97
- Piezoelectric sensor for detection of organic amines in aqueous phase based on a polysiloxane coating incorporating acidic functional groups, 345 (1997) 29
- Improved direct piezoelectric biosensors operating in liquid solution for the competitive label-free immunoassay of 2,4-dichlorophenoxyacetic acid, 347 (1997) 43
- Signal oscillations of a piezoelectric quartz crystal in liquids caused by compressional waves, 364 (1998) 189
- Adsorption study of organic molecules on fullerene with piezoelectric crystal detection system, 374 (1998) 39
- Inverse derivative chronopotentiometry/quartz crystal microgravimetry of solid conducting salt films, 380 (1999) 47
- Capture agents for a quartz crystal microbalance-continuous flow biosensor: functionalized self-assembled monolayers on gold, 399 (1999) 51

# Quartz crystal microbalance sensor

Determination of microorganisms with a quartz crystal microbalance sensor, 319 (1996) 97

# Quartz crystal sensor

Model of quartz crystal microbe growth sensor and its application to estimation of microbial populations in mineral waters, 329 (1996) 83

# Quartz crystals

- Determination of pH using a polyaniline-coated piezoelectric crystal, 329 (1996) 105
- Development of an oxidase-based glucose sensor using thicknessshear-mode quartz crystals, 363 (1998) 203
- Characterization of aluminum corrosion with a quartz crystal analyzer, 386 (1999) 229

# Quartz microbalance

The application of metalloporphyrins as coating material for quartz microbalance-based chemical sensors, 325 (1996) 53

Pattern recognition approach to the study of the interactions between metalloporphyrin Langmuir–Blodgett films and volatile organic compounds, 384 (1999) 249

#### **Quartz** resonator

Investigation of the quartz resonator as an industrial cleaning monitor, 309 (1995) 53

#### Quartz sand particles

Classification and quantification of polycyclic aromatic hydrocarbons on quartz sand particles by direct Fourier transform imaging fluorescence, 367 (1998) 1

### Quartz-cell atomic absorption spectrometry

Photoreduction-hydride generation: a new on-line system for the determination of selenate and selenite, 353 (1997) 91

### Quartz-crystal-microbalance

Amplified electronic transduction of oligonucleotide interactions: novel routes for Tay-Sachs biosensors, 385 (1999) 33

### Quasireversible redox reaction

Square-wave voltammetry of a cathodic stripping reaction complicated by adsorption of the reacting ligand, 386 (1999) 47

# Quaternary ammonium

Ultramicroelectrode study without deliberately added electrolyte: application to the analysis of liquid-liquid extraction processes in dichloromethane, 305 (1995) 137

Quantitation of quaternary ammonium compounds using electrospray mass spectrometry, 377 (1998) 39

# Quaternary ammonium ions

Determination of the quaternary ammonium ion components of Aliquat 336 by electrospray mass spectrometry, 360 (1998) 167

# Quaternary ammonium salts

Sensitive determination of quaternary ammonium salts by extraction-spectrophotometry of ion associates with bromophenol blue anion and coextraction, 302 (1995) 75

Potentiometric properties and impedance spectroscopic data of poly(vinyl chloride) membranes containing quaternary ammonium salts of different chemical structure, 393 (1999) 19

### Quenching

Efficient quenching of the fluorescence of binaphthyl-based amphiphiles by mercury(II) complexes, 320 (1996) 115

New polar plasticizers for luminescence-based sensors, 337 (1997) 201

Sol-gel immobilized room-temperature phosphorescent metal-chelate as luminescent oxygen sensing material, 360 (1998) 17

Optical sensing of sulfite with a phosphorescent probe, 374 (1998)

Fluorescein mercury(II) acetate and sodium fluorescein as reagents for the determination of bis(2-chloroethyl)sulfide by fluorescence quenching, 387 (1999) 207

Spectrochemical investigations in dendritic media: evaluation of nitromethane as a selective fluorescence quenching agent in aqueous carboxylate-terminated polyamido amine (PAMAM) dendrimers, 397 (1999) 17

# Quercetin

Quercetin-La(III) complex for the fluorimetric determination of nucleic acids, 381 (1999) 17

#### Quinidine

Direct determination of quinidine in urine, 317 (1995) 359

Phase-modulation fluorescence lifetime resolution of quinine and quinidine by ion-pair diastereomeric complexation, 381 (1999)

### Quinine

Phase-modulation fluorescence lifetime resolution of quinine and quinidine by ion-pair diastereomeric complexation, 381 (1999) 11

### **Quinolinic** acid

Determination of quinolinic acid in human urine by liquid chromatography with fluorimetric detection, 302 (1995) 179

# 8-Quinolinol

Extraction with 8-quinolinol and mixed anionic additives using ultrasonic irradiation for the catalytic determination of vanadium in freshwaters, 310 (1995) 501

Flow-injection column preconcentration directly coupled with electrothermal atomization atomic absorption spectrometry for the determination of aluminium. Comparison of column packing materials, 316 (1995) 313

On-line trace metal determination by pre-concentration on immobilized 8-quinolinol with flow recycling anodic stripping voltammetry, 339 (1997) 155

Portable fractionation device and screen-printed electrode for measurement of reactive aluminium in environmental samples, 381 (1999) 49

# Quinolinol

Cathodic stripping voltammetric determination of tellurium(IV) at a Nafion/8-quinolinol mercury film modified electrode, 358 (1998) 285

# 8-Quinolinol-derivatised Fractogel

Flow injection determination of Al<sup>3+</sup> and Al<sub>13</sub>O<sub>4</sub>(OH)<sub>24</sub>(H<sub>2</sub>O)<sup>7+</sup><sub>12</sub> species using a 1.3-s reaction with 8-quinolinol-derivatised Fractogel, 343 (1997) 19

# Quinolones

Factor analysis applied to correlation between acidity constants of series of diuretics, quinolones and buffers, with solvatochromic parameters in water-acetonitrile mixtures, 347 (1997) 385

### Ouinones

Thermodynamics and kinetics of adsorption and electrocatalysis of NADH oxidation with a self-assembling quinone derivative, 309 (1995) 79

### Quinoxalines

Voltammetry of compounds confined at the hanging mercury drop electrode surface, 385 (1999) 315

# R

#### Rabbit liver metallothiopein

Evaluation of cadmium-metallothionein stability constants based on voltammetric measurements, 360 (1998) 189

#### Racemization

Hydrolysis of proteins performed at high temperatures and for short times with reduced racemization, in order to determine the enantiomers of D - and L-amino acids, 339 (1997) 99

#### Radial basis functions

Radial basis functions applied to the classification of UV-visible spectra, 388 (1999) 273

### Radial Basis Functions Networks (RBFN)

The Radial Basis Functions - Partial Least Squares approach as a flexible non-linear regression technique, 331 (1996) 177

Application of Radial Basis Functions - Partial Least Squares to nonlinear pattern recognition problems: diagnosis of process faults, 331 (1996) 187

#### Radiance factor

Establishment of absolute diffuse reflectance scales using the NPL Reference Reflectometer, 380 (1999) 165

Study of the dependency of spectral radiance factor and colorimetric values on geometric tolerances, 380 (1999) 363

### 0°/45° radiance factor

Determination of colorimetric uncertainties in the spectrophotometric measurement of colour, 380 (1999) 277

### Radiation

Microwave-assisted pre-treatment of environmental samples for the determination of <sup>90</sup>Sr, 379 (1999) 135

# Radiation product

Formation of highly fluorescent adducts between 2'-deoxyguanosine and amino acids by ionizing radiation, 365 (1998) 183

# Radio frequency power

Analysis of superconductor oxides YBa<sub>2</sub>Cu<sub>3</sub>O<sub>8-x</sub> by inductively coupled plasma atomic emission spectrometry and complexometric titration, 330 (1996) 259

# Radioactive measurements

Stability of bacterium-mercury complexes and speciation of soluble inorganic mercury species, 330 (1996) 89

### Radioactive/nuclear waste

Metal ion interferences in reverse polarity capillary zone electrophoretic analysis of Hanford Defense Waste for ethylenediaminetetraacetic acid (EDTA) and n-hydroxyethylethylenediaminetriacetic acid (HEDTA), 396 (1999) 105

# Radiochemical neutron activation analysis

Precise determination of rare earth elements, thorium and uranium in chondritic meteorites by inductively coupled plasma mass spectrometry – a comparative study with radiochemical neutron activation analysis, 338 (1997) 237

### Radiolabelling

Separation of radiolabelled arsenic compounds produced by neutron irradiation of organoarsenic compounds, 380 (1999) 63

### Radioluminescent oxygen sensors

Linear calibration function for optical oxygen sensors based on quenching of ruthenium fluorescence, 368 (1998) 83

#### Radionuclides

Magnetic recovery of radium, lead and polonium from seawater samples after preconcentration on a magnetic adsorbent of manganese dioxide coated magnetite, 328 (1996) 53

Determination of a mixture of gamma-emitting radionuclides using solid scintillation detectors and multivariate calibration, 379 (1999) 121

### Radiosterilization

Radiosterilization dosimetry by electron-spin resonance spectroscopy: Cefotetan, 359 (1998) 107

Electron spin resonance identification of irradiated ascorbic acid: Dosimetry and influence of powder fineness, 372 (1998) 373

#### Radiotracers

A dual radiotracer speciation technique with emphasis on probing of artefacts: a case study for technetium and spinach (Spinacia oleracea L.), 394 (1999) 271

#### Radium-226

Magnetic recovery of radium, lead and polonium from seawater samples after preconcentration on a magnetic adsorbent of manganese dioxide coated magnetite, 328 (1996) 53

Simultaneous measurement of <sup>226</sup>Ra and <sup>133</sup>Ba using liquid scintillation counting with pulse shape discrimination, 332 (1996) 291

### Dain

Spectrophotometric determination of silicate in rain and aerosols by flow analysis, 396 (1999) 285

# Rain water

Continuous-flow determination system based on null-point potentiometry using a nitrate ion-selective membrane, 355 (1997) 211 Spectrophotometric determination of hydrogen peroxide in rainwater, 370 (1998) 279

### Rain water analysis

Buffer composition suitable for determining very low fluoride concentrations using a fluoride ion-selective electrode and its application to the continuous analysis of rain water, 338 (1997) 141

Determination of free and total fluoride in rain water using a continuous-flow system equipped with a fluoride ion-selective electrode detector, 364 (1998) 117

# RAM electrodes

Microelectrode arrays: application in batch-injection analysis, 385

### Raman

Surface-enhanced Raman detection of nicotinamide in vitamin tablets, 368 (1998) 21

### Raman spectrometry

- Surface-enhanced Raman scattering from functionalized selfassembled monolayers Part 1. Distance dependence of enhanced Raman scattering from a terminal phenyl group, 307 (1995) 333
- Solvent-induced morphology changes in thin silver films, 307 (1995) 341
- Fast spatially resolved surface-enhanced Raman spectrometry on a silver coated filter paper using charge-coupled device detection, 310 (1995) 337
- Flow-injection analysis and liquid chromatography: surfaceenhanced Raman spectrometry detection by using a windowless flow cell. 318 (1996) 203
- Surface-enhanced resonance Raman spectroscopy of 2-pyridylhydrazone and 1,10-phenanthroline chelate complexes with metal ions on colloidal silver, 318 (1996) 229
- Surface-enhanced Raman spectrometry of chiral β-blocker drugs on colloidal silver, 335 (1996) 87
- Evaluation of silver substrates for surface-enhanced Raman detection of drugs banned in sport practices, 376 (1998) 255
- A simplified calibration model of spectral data for quantitative analyses with different Raman spectrometers, 379 (1999) 159

### Raman spectroscopy

- Monitoring the absorption of organic vapors to a solid phase extraction medium Applications to detection of trace volatile organic compounds by integration of solid phase absorbents with fiber optic Raman spectroscopy, 340 (1997) 227
- Determination of sulfate in brackish waters by laser Raman spectroscopy, 344 (1997) 153
- DNA-modified electrodes Part 3.: spectroscopic characterization of DNA-modified gold electrodes, 388 (1999) 93

# light on the next millennium, 400 (1999) 281

### Random errors

Determination of fission products and actinides by inductively coupled plasma-mass spectrometry using isotope dilution analysis: a study of random and systematic errors, 312 (1995) 57

### Random noise

A computational study on the effect of random noise on the precision and accuracy of the integration of chromatographic peaks, 388 (1999) 187

### Random noise effect

Systematic comparison of data-processing options for kinetic-based, single-component determinations of noncatalysts: Effects of random noise, 326 (1996) 95

### Randomized sequences of oligonucleotide

Prediction of an antisense-effective target site on VEGFmRNA by using RNase H and a library of random oligonucleotides, 365 (1998) 55

# Range adjustment

Sensitivity control of ion-selective biosensors by electrophoretically mediated analyte transport, 391 (1999) 57

### Ranitidine

- Determination of ranitidine in pharmaceutical preparations using manual and flow injection potentiometry and spectrophotometry, 332 (1996) 39
- Determination of Ranitidine and Salbutamol by Flow Injection Analysis with Chemiluminescence Detection, 384 (1999) 151

### Rank analysis

Data correlation, number of significant principal components and shape of molecules. The K correlation index, 348 (1997) 419

#### Rank annihilation

Interactive rank annihilation: a graphic approach to quantification in grey multicomponent systems, 316 (1995) 225

#### Rank annihilation factor analysis

- Retention time shift adjustments of two-way chromatograms using Bessel's inequality, 304 (1995) 57
- Evaluation of total luminescence data with chemometrical methods: a tool for environmental monitoring, 356 (1997) 61

#### Rank deficiency

Calibration methods for complex second-order data, 398 (1999) 237

#### Rank map vectors

Properties of local rank map vectors from multidetection chromatograms, 318 (1996) 137

# Rapid chemical separation

Improvement of Tc separation procedure using a chromatographic resin for direct measurement by ICP-MS, 357 (1997) 1

# Rapid determination

Possibility of rapid determination of low-level <sup>90</sup>Sr activity by combination of extraction chromatography separation and Cherenkov counting, 399 (1999) 237

### Rapid pathogen detection

Capture agents for a quartz crystal microbalance-continuous flow biosensor: functionalized self-assembled monolayers on gold, 399 (1999) 51

### Rapid scanning

Characterization of the acousto-optic tunable filter for the ultraviolet and visible regions and development of an acousto-optic tunable filter based rapid scanning detector for high-performance liquid chromatography, 314 (1995) 57

### Rare earth elements

- Determination of rare earth impurities in ultrapure europium oxide by inductively-coupled plasma mass spectrometry, 314 (1995) 193
- Determination of rare earth elements by ion chromatography. Separation procedure optimization, 322 (1996) 49
- Precise determination of rare earth elements, thorium and uranium in chondritic meteorites by inductively coupled plasma mass spectrometry – a comparative study with radiochemical neutron activation analysis, 338 (1997) 237
- Sequential separation of light rare-earth elements, thorium and uranium by miniaturized extraction chromatography: Application to isotopic analyses of silicate rocks, 339 (1997) 79

Separation of thorium, uranium and rare-earth elements with 2-[(2-arsenophenyl)-azo]-1,8-dihydroxy-7-[(2,4,6-tribromophenyl)azo]-naphthalene-3,6-disulfonic acid by capillary electrophoresis, 358 (1998) 157

Inductively coupled plasma-atomic emission spectral fitting analysis of rare-earth elements in ion-adsorption type ores, 362 (1998) 241

Determination of the aqua regia soluble content of rare earth elements in fertilizer, animal fodder phosphate and manure samples using inductively coupled plasma mass spectrometry, 373 (1998) 95

#### Rare earth minerals

Determination of scandium in geological materials, rare earth minerals and niobate/tantalate-type of samples by inductively coupled plasma atomic emission spectrometry after solvent extraction/acid hydrolysis separation, 376 (1998) 273

#### Rat brain

Serotonin monitoring in microdialysate from rat brain by microboreliquid chromatography with fluorescence detection, 365 (1998) 227

#### Rat kidney

Negative ion liquid secondary ion mass spectrometry and tandem mass spectrometric analysis of the molecular species of aminophospholipids as 9-fluorenylmethyloxycarbonyl derivatives, 326 (1996) 127

### Rat medial iliac lymph node cell

Preparation of monoclonal antibody against p-3-methoxy-4-hydroxyphenylglycol, 365 (1998) 129

# Rat melanotrophs

Cathophoresis paint insulated carbon fibre ultramicro disc electrode and its application to in vivo amperometric monitoring of quantal secretion from single rat melanotrophs, 378 (1999) 135

### Rat tissues

Bioluminescent enzyme immunoassay for pituitary adenylate cyclase activating polypeptide 38 (PACAP38), 382 (1999) 245

# Rate constant determination

A method for the determination of reaction mechanisms and rate constants from two-way spectroscopic data, 373 (1998) 83

# Rate constant ratio

Chemometric study of differential kinetic analysis by the method of proportional equations, 322 (1996) 195

# Ratio chromatograms

Measurement of enantiomeric purity by ratio chromatograms with a photometric detector using quartz plates as a multiple retarder, 396 (1999) 125

### Ratio spectra derivative spectrophotometry

Application of a new spectrophotometric method for the analysis of a ternary mixture containing metamizol, paracetamol and caffeine in tablets, 359 (1998) 93

#### Raw wool

Development of a novel supercritical fluid extraction procedure for lanolin extraction from raw wool, 381 (1999) 39

#### Rayleigh light scattering

Microdetermination of proteins by Rayleigh light scattering technique with acid green 25, 338 (1997) 255

Simple and sensitive assay for nucleic acids by use of Rayleigh light scattering technique with rhodamine B, 379 (1999) 39

Study on the interaction of protein with Sulfonazo III by Rayleigh light scattering technique and its application, 398 (1999) 319

#### RDA

Feature reduction by Fourier transform in pattern recognition of NIR data, 331 (1996) 75

### RDX

In situ detection of trinitrotoluene and other nitrated explosives in soils, 341 (1997) 63

Multi-analyte explosive detection using a fiber optic biosensor, 399 (1999) 13

#### Reaction mechanism

A method for the determination of reaction mechanisms and rate constants from two-way spectroscopic data, 373 (1998) 83

# Reaction monitoring

A method for the determination of reaction mechanisms and rate constants from two-way spectroscopic data, 373 (1998) 83

Real time quantitation of a chemical reaction by fiber optic nearinfrared spectroscopy, 395 (1999) 335

# Reaction rate constants

Rapid estimation of rate constants using on-line SW-NIR and trilinear models, 376 (1998) 339

# Reactive accumulation

Cathodic stripping voltammetric determination of ceftazidime with reactive accumulation at a poly-L-lysine modified hanging mercury drop electrode, 384 (1999) 159

### Reactive aluminium

Portable fractionation device and screen-printed electrode for measurement of reactive aluminium in environmental samples, 381 (1999) 49

# Reactive dye hydrolysis

Electrochemical investigations of reactive dyes; cathodic stripping voltammetric determination of anthraquinone-based chlorotriazine dyes at a hanging mercury drop electrode, 349 (1997) 101

### Reactive dves

Electrochemical investigations of reactive dyes; polarographic determination of anthraquinone-based chlorotriazine dyes, 315 (1995) 41

A study of the effects of injection mode, on-capillary stacking and off-line concentration on the capillary electrophoresis limits of detection for four structural types of industrial dyes, 349 (1997) 221

Polarographic and voltammetric determination of triazine-based reactive azo dyes with 4-carboxypyridyl and 1,4-diazabicy-clo[2,2,2]octanyl (DABCO) leaving groups, 362 (1998) 235

Determination of the vinylsulphone azo dye, remazol brilliant orange 3R, by cathodic stripping voltammetry, 385 (1999) 385

### Reactive phosphorus

Elimination of the Schlieren effect in the determination of reactive phosphorus in estuarine waters by flow-injection analysis, 351 (1997) 265

### Readsorption

Metal readsorption and redistribution during the analytical fractionation of trace elements in oxic estuarine sediments, 399 (1999) 295

### Reagent stability

Two chemical approaches for the production of stable solutions of tris(2,2'-bipyridyl)ruthenium(III) for analytical chemiluminescence, 388 (1999) 1

### Reagentless

Reagentless chemiluminescence flow sensor for sulfite, 361 (1998) 201

# Real samples

Anodic characterization of mercury microelectrodes for determinations of anions in real samples, 340 (1997) 77

An approach to the calibrationless determination of copper and lead by anodic stripping voltammetry at thin mercury film microelectrodes. Application to well water and rain, 346 (1997) 145

### Real-time

Real time quantitation of a chemical reaction by fiber optic nearinfrared spectroscopy, 395 (1999) 335

### Real-time optimization

Real-time simplex optimization of flow-injection systems for chemical analysis, 366 (1998) 313

### Receptor assay

Development of an enzyme linked receptor assay (ELRA) for estrogens and xenoestrogens, 386 (1999) 191

# Receptor binding protein

Receptor binding protein amperometric affinity sensor for rapid  $\beta$ -lactam quantification in milk, 398 (1999) 13

### Recognition

Molecular imprint membranes of polyacrylonitrile copolymers with different acrylic acid segments, 365 (1998) 81

### Recombinant

Recent advances in the capillary electrophoresis of recombinant glycoproteins, 383 (1999) 137

### Recombinant antibodies

Antibodies for immunosensors, 347 (1997) 177

# Recombinant bacteria

Microscale application of the SOS-LUX-TEST as biosensor for genotoxic agents, 387 (1999) 289

# Reconstituted enzymes

Glucose oxidase electrodes via reconstitution of the apo-enzyme: tailoring of novel glucose biosensors, 385 (1999) 45

### Recovery

In vitro microdialysis of hydrophilic and lipophilic compounds, 355 (1997) 75

### Recovery of protein enzyme

Isoelectric focusing of biotinidase and lipoamidase with the addition of non-ionic detergent, 372 (1998) 281

### Recursive least squares

On-line fault detection of flow-injection analysis systems based on recursive parameter estimation, 313 (1995) 161

### Recursive prediction error

Extending the response range of an optical fibre pH sensor using an artificial neural network, 330 (1996) 31

# Red blood cells

Development of an amperometric immunosensor based on flow injection analysis for the detection of red blood cells, 340 (1997) 175

### Red fruit juices

Anthocyanic pigment determination in red fruit juices, concentrated juices and syrups using liquid chromatography, 382 (1999) 39

# Red mud

Selective separation and determination of scandium from yttrium and lanthanides in red mud by a combined ion exchange/solvent extraction method, 315 (1995) 231

Recovery of lanthanides and yttrium from red mud by selective leaching, 319 (1996) 249

# Red tide

Detection of the red tide-causing plankton Chattonella marina using a piezoelectric immunosensor, 325 (1996) 73

### Red tide phytoplankton

Highly sensitive chemiluminescence flow-injection detection of the red tide phytoplankton *Heterosigma carterae*, 390 (1999) 237

# Red-absorbing label

Column liquid chromatography with diode laser-induced fluorescence detection of carboxylic acids after pre-column derivatisation, 315 (1995) 209

### Redistribution

Assessment of the extent of lead redistribution during sequential extraction by two different methods, 332 (1996) 1

Inhibition of Pb redistribution by two complexing agents (cryptand and NTA) during a sequential extraction of soil models, 347 (1997) 313

Metal readsorption and redistribution during the analytical fractionation of trace elements in oxic estuarine sediments, 399 (1999) 295

# Redox cycling

Application of redox cycling enhanced current at an interdigitated array electrode for iron-trace determination in ultrapure spectral carbon, 305 (1995) 121

# Redox hydrogel

Alcohol biosensors based on coupled oxidase-peroxidase systems, 327 (1996) 223

# Redox indicator reaction

Investigation of a new reaction for the determination of microquantities of sulfite in some inorganic salts, 357 (1997) 239

# Redox iron speciation

Sequential determinations by confluent reagent introduction in the sample loop: system characteristics and applications, 366 (1998) 281

#### Redox mediation

Voltammetric characterisation of an insoluble tetrathiafulvalene derivative by means of modified carbon paste electrode, 336 (1996) 77

### Redox mediators

Amperometric immunosensors and enzyme electrodes for environmental applications, 362 (1998) 47

#### Redox modulation

Redox-modulated solute retention on iron-protoporphyrin-silica stationary phases, 392 (1999) 191

### Redox polymers

Thin film bienzyme amperometric biosensors based on polymeric redox mediators with electrostatic bipolar protecting layer, 311 (1995) 15

Oxidative detection of nitrite at an electrocatalytic [Ru(bipy)<sub>2</sub>poly-(4-vinylpyridine)<sub>10</sub>Cl]Cl electrochemical sensor applied for the flow injection determination of nitrate using a Cu/Cd reductor column, 319 (1996) 111

Three-dimensional plots from osmium redox-polymer based electrochemical sensors, 344 (1997) 159

# Redox potential $(E_H)$

Practical improvements for redox potential (E<sub>H</sub>) measurements and the application of a multiple-electrode redox probe (MERP) for characterising sediment in situ, 367 (1998) 201

# Redox-label

A redox-label immunosensor on basis of a bi-enzyme electrode, 344 (1997) 119

# Reducing agents

Chemiluminescence flow injection analysis of reducing agents based on the luminol reaction, 353 (1997) 345

# Reducing sugars

Determination of reducing sugars by flow injection gravimetry, 366 (1998) 119

### Reduction-oxidation

Sensitivity enhancement of the methylene blue catalytic-spectrophotometric method of selenium(IV) determination by CTAB, 335 (1996) 155

# Reference absorbers

Sources of errors in the use of calorimetric references for photothermal spectroscopic methods, 334 (1996) 337

#### Reference data sets

Design and use of reference data sets for testing scientific software, 380 (1999) 339

#### Reference materials

Evaluation of sample preparation methods for organotin speciation analysis in sediments - focus on monobutyltin extraction, 317 (1995) 161

Speciation of arsenobetaine in marine organisms using a selective leaching/digestion procedure and hydride generation atomic absorption spectrometry, 337 (1997) 323

Choosing reference samples for EPR concentration measurements.

Part 1. General introduction and systems of S=12, 339 (1997) 1

Choosing reference samples for EPR concentration measurements. Part 2. Systems of S=1, 339 (1997) 13

Choosing reference samples for EPR concentration measurements. Part 3. Systems of S=32, 339 (1997) 31

Choosing reference samples for EPR concentration measurements. Part 4. Systems of S=52, 339 (1997) 53

Challenges in providing standard reference materials for chemical and pharmaceutical process analysis, 380 (1999) 115

Gonio-spectrophotometric analysis of white and chromatic reference materials, 380 (1999) 173

Assessment of homogeneity of candidate reference material at the nanogram level and investigation on representativeness of single particle analysis using electron probe X-ray microanalysis, 389 (1999) 151

### Reference microelectrode

Ensembles of carbon paste microelectrodes, 382 (1999) 145

### Reference rocks

Stable chlorine-isotope analysis of rock samples: New aspects of chlorine extraction, 362 (1998) 261

# Reference samples

Choosing reference samples for EPR concentration measurements. Part 1. General introduction and systems of S=12, 339 (1997) 1

Choosing reference samples for EPR concentration measurements. Part 2. Systems of S=1, 339 (1997) 13

Choosing reference samples for EPR concentration measurements. Part 3. Systems of S=32, 339 (1997) 31

Choosing reference samples for EPR concentration measurements. Part 4. Systems of S=52, 339 (1997) 53

Extraction of lithium from GSJ rock reference samples and determination of their lithium isotopic compositions, 340 (1997) 221

### Reflectameter

Establishment of absolute diffuse reflectance scales using the NPL Reference Reflectometer, 380 (1999) 165

### Reflectance

Novel spectrophotometer for the measurement of color and appearance, 380 (1999) 243

Determination of colorimetric uncertainties in the spectrophotometric measurement of colour, 380 (1999) 277

High-accuracy measurement of specular spectral reflectance and transmittance, 380 (1999) 317

### Reflectance spectra

Serial filter method for fluorescence evaluation, 380 (1999) 417

#### Reflectance standard

Gonio-spectrophotometric analysis of white and chromatic reference materials, 380 (1999) 173

### Reflectometric interference spectrometry

Detection of mixtures of organic pollutants in water by polymer film receptors in fibre-optical sensors based on reflectometric interference spectrometry, 312 (1995) 1

# Reflectometric interference spectroscopy

Interaction between volatile organic compounds and cyclopeptides detected with reflectometric interference spectroscopy, 392 (1999) 213

### Refractive index

Characterization and reduction of interferences in flow-injection analysis for the in situ determination of nitrate and nitrite in sea water, 308 (1995) 413

Elimination of the Schlieren effect in the determination of reactive phosphorus in estuarine waters by flow-injection analysis, 351 (1997) 265

Thermal lens investigation of the temperature dependence of the refractive index of aqueous electrolyte solutions, 356 (1997) 277

Prediction of Simple Physical Properties of Mixed Solvent Systems by Artificial Neural Networks, 371 (1998) 117

Simultaneous absorbance, fluorescence and refractive index (SAFRIN) detection for Micro LC, 397 (1999) 191

Micro-interferometric backscatter detection using a diode laser, 400 (1999) 265

# Refractive index compensation

Flow injection sandwich technique applied to indirect visible spectrophotometric determinations. Bromimetric and iodimetric determination of sulphite, 318 (1995) 55

### Refractive-index effect

A multicommutated flow system with on-line compensation of the Schlieren effect applied to the spectrophotometric determination of pindolol, 366 (1998) 209

### Refractory elements

Fluorination with polytetrafluoroethylene slurry in electrothermal vaporization-inductively coupled plasma-atomic emission spectrometry, 319 (1996) 255

# Refractory elements in pure iron

On-line ion-exchange separation and determination of niobium, tantalum, tungsten, zirconium and hafnium in high-purity iron by flow injection inductively coupled plasma mass spectrometry, 315 (1995) 331

# Refractory powders

Solid electrodes from refractory powder materials prepared for electroanalytical purposes by a novel method, 364 (1998)

### Regenerated silk fibroin

An amperometric Meldola Blue-mediated sensor high sensitive to hydrogen peroxide based on immobilization of horseradish peroxidase in a composite membrane of regenerated silk fibroin and poly(vinyl alcohol), 329 (1996) 97

# Regeneration

Reusable solid phase immunoassay for the detection of citrate lyase, 320 (1996) 77

Highly parallel affinity sensor for the detection of environmental contaminants in water, 393 (1999) 29

### Regression

Linear and non-linear modelling techniques for the investigation of spectrum-structure relationships, 348 (1997) 471

### Regression analysis

Rapid and quantitative analysis of metabolites in fermentor broths using pyrolysis mass spectrometry with supervised learning: application to the screening of Penicillium chrysogenum fermentations for the overproduction of penicillins, 313 (1995) 25

Robust regression used for the treatment of partial non-linearity in multivariate calibration, 313 (1995) 185

Quantitative structure-property relationships for colour reagents and their colour reactions with ytterbium using regression analysis and computational neural networks, 321 (1996) 97

Detection of bias in method comparison by regression analysis, 338 (1997) 19

Modelling and optimization of cyanidation process. A chemometric approach by regression analysis, 367 (1998) 123

# Regression model

Investigation by experimental design and regression models of the effect of five experimental factors on ion-interaction highperformance liquid chromatographic retention, 321 (1996) 225

### Regularised discriminant analysis

Comparison of regularized discriminant analysis, linear discriminant analysis and quadratic discriminant analysis, applied to NIR data, 329 (1996) 257

Regularised nearest neighbour classification method for pattern recognition of near infrared spectra, 349 (1997) 253

### Regularised nearest neighbour

Regularised nearest neighbour classification method for pattern recognition of near infrared spectra, 349 (1997) 253

### Reineckate

Potentiometric membrane sensors for the selective determination of cinnarizine in pharmaceutical preparations, 321 (1996) 47

Determination of ranitidine in pharmaceutical preparations using manual and flow injection potentiometry and spectrophotometry, 332 (1996) 39

# Relative humidity sensor

Piezoelectric quartz crystal humidity sensor using chemically modified nitrated polystyrene as water sorbing coating, 332 (1996) 93

### Relative sensitivity factors

The relationship between relative sensitivity factors and ionization potential in dc glow discharge mass spectrometry using Ar/0.2 vol.% H<sub>2</sub> mixture, 355 (1997) 129

Elemental analysis of powders by glow discharge mass spectrometry, 395 (1999) 165

### Relative-humidity

Oxygen detection by fluorescence quenching of tetraphenylporphyrin immobilized in the original cladding of an optical fiber, 370 (1998) 1

### Relaxation time

Assessment of the intermediate phase in milk fat by low-resolution nuclear magnetic resonance, 311 (1995) 217

#### Reliability

Mercury-plated iridium-based microelectrode arrays for trace metals detection by voltammetry: optimum conditions and reliability, 329 (1996) 203

Reliability of analytical information in the XXIst century, 400 (1999) 425

#### Reliable evaluation

The automation of immun-FIA-systems, 313 (1995) 55

A new evaluation technique for FIA measurements: projective reference evaluation, 348 (1997) 161

# Remazol brilliant orange 3R

Determination of the vinylsulphone azo dye, remazol brilliant orange 3R, by cathodic stripping voltammetry, 385 (1999) 385

# Remote electrode

Remote stripping electrode for in situ monitoring of labile copper in the marine environment, 310 (1995) 223

### Remote monitoring

Remote electrochemical monitoring of trace silver, 318 (1996) 151

# Remote NIR sensing

Selecting a representative training set for the classification of demolition waste using remote NIR sensing, 392 (1999) 67

# Remote sensing analysis

Study on spectral characterization of infrared flare material combustion with remote high resolution Fourier transform infrared spectrometry, 306 (1995) 249

# Remote sensors

Remote electrochemical sensor for monitoring TNT in natural waters, 361 (1998) 85

Stripping analysis into the 21st century: faster, smaller, cheaper, simpler and better, 385 (1999) 429

Demonstration of a separations-based fiberoptic sensor for bioanalysis, 399 (1999) 201

### Renal disease

High resolution two-dimensional electrophoresis of human urinary proteins, 372 (1998) 147

### Renewable immunosensor

Determination of β-HCG using amperometric immunosensors based on a conducting immunocomposite, 396 (1999) 181

### Repair capability

Mammalian cells as biomonitors of UV-exposure, 387 (1999) 281

### Repeatability

Determination of the carbon-13 content of sugars and pulp from fruit juices by isotope-ratio mass spectrometry (internal reference method) A European interlaboratory comparison, 340 (1997) 21

Determination of the <sup>13</sup>C contents of organic acids and sugars in fruit juices: an inter-comparison study, 388 (1999) 137

Comparison of alternative measurement methods, 391 (1999) 203

### Repeatability and reproducibility

Site-specific natural isotope fractionation in fruit juices determined by deuterium NMR An European inter-laboratory comparison study, 321 (1996) 137

### Repeated sampling method

A method of repeated sampling of static headspace above anaerobic bacterial cultures with fluorine-induced chemiluminescence detection, 303 (1995) 91

### Repetitive expansion

Design and evaluation of an improved simplex method, 371 (1998) 9

### Replacement-set

Monitoring of α-helical secondary structures in peptides by reversed-phase HPLC of replacement sets, 352 (1997) 365

# Reporting limit, responses below

Treatment of responses below the detection limit: some current techniques compared by Factor Analysis on environmental data, 354 (1997) 255

### Representativity

Characterisation of the representativity of selected sets of samples in multivariate calibration and pattern recognition, 350 (1997) 149

# Reproducibility

Numerical approach to the explanation of the response time of the Severinghaus type electrode, 316 (1995) 83

Application of thallium(I) as an internal standard redox process in voltammetric measurements, 331 (1996) 125

A new mercury drop electrode for trace metal analysis, 339 (1997)

Determination of the carbon-13 content of sugars and pulp from fruit juices by isotope-ratio mass spectrometry (internal reference method) A European interlaboratory comparison, 340 (1997) 21

Reproducibility testing of a sequential extraction scheme for the determination of trace metal speciation in a marine reference sediment by inductively coupled plasma-mass spectrometry, 342 (1997) 91

Determination of the <sup>13</sup>C contents of organic acids and sugars in fruit juices: an inter-comparison study, 388 (1999) 137

### Research

Quality assurance good practice for research and development and non-routine analysis, 393 (1999) 157

#### Reserpine

Determination of reserpine by in situ sensitized photochemical spectrofluorimetry, 302 (1995) 207

#### Residence time model

Residence time model for assessing liquid-liquid extraction systems, 330 (1996) 229

#### Residues

Detection and identification of thyreostats in the thyroid gland by gas chromatography-mass spectrometry, 340 (1997) 201

### Residues in milk

Determination of the marker residue of albendazole in milk using ion-pair liquid chromatography and fluorescence detection, 345 (1997) 111

### Resin preconcentration

The effect of freshwater UV-irradiation prior to resin preconcentration of trace metals, 386 (1999) 155

#### Resin titration

Investigation of the speciation of aluminium in drinking waters by sorption on a strong anionic-exchange resin AG1X8, 367 (1998) 215

### Resolution

Resolution of hidden minor peaks in multidetection chromatography by estimation of a single parameter in a 2-D transformation matrix, 309 (1995) 123

# Resolution enhancement method

Signals ratio method for resolution enhancement in differential pulse polarography and related techniques, 312 (1995) 27

### Resolution of fused peak

Application of Fourier transform to four-electrode microvoltammetric system for studies on micro-ITIES electroanalysis, 382 (1999) 137

### Resolution of mixtures

Evaluation of several global resolution functions for liquid chromatography, 396 (1999) 61

### Resonance frequency

Characterization of aluminum corrosion with a quartz crystal analyzer, 386 (1999) 229

# Resonance light-scattering (RLS)

Resonance light scattering study of aggregation of two water soluble porphyrins due to their interaction with bovine serum albumin, 343 (1997) 281

Determination of nucleic acids at nanogram levels with safranine T by a resonance light-scattering technique, 375 (1998) 89

Molecular spectroscopic study of DNA binding with neutral red and application to assay of nucleic acids, 396 (1999) 75

# Resonance light-scattering spectroscopy

Bromopyrogallol red enhanced resonance light-scattering spectroscopic determination of DNA with 5,10,15,20-tetrakis[4-(trimethylammoniumyl) phenyl]porphine, 379 (1999) 45

### Resonance Raman spectroscopy

Resonance Raman spectroscopy as a probe of electrosynthesized materials: principles and selected results, 397 (1999) 43

# Resonance Rayleigh scattering

Resonance Rayleigh scattering of chromium(VI)-iodide-basic triphenylmethane dye systems and their analytical application, 379 (1999) 53

### Resonance resistance

Characterization of aluminum corrosion with a quartz crystal analyzer, 386 (1999) 229

#### Resonant mirror

Resonant mirror-based optical immunosensor: application for the measurement of atrazine in soil, 399 (1999) 29

#### Resorcinol

Simultaneous determination of gallic acid and resorcinol based on an oscillating chemical reaction by the analyte pulse perturbation technique, 334 (1996) 323

Substituted catechols as complexing agents for the determination of bismuth, lead, copper and cadmium by adsorptive stripping voltammetry, 344 (1997) 87

### Response

Numerical approach to the explanation of the response time of the Severinghaus type electrode, 316 (1995) 83

### Response current

Voltammetric and amperometric study of electrochemical activity of boron-doped polycrystalline diamond thin film electrodes, 333 (1996) 125

### Response curve

Enhanced selectivity of MOSFET gas sensors by systematical analysis of transient parameters, 353 (1997) 291

### Response function

Quality compromises incorporated in simplex optimisation of a flow injection system, 348 (1997) 129

Response function and analytical parameters of nitrite-selective optode membranes in absorbance and fluorescence mode, 355 (1997) 259

The SFSTP guide on the validation of chromatographic methods for drug bioanalysis: from the Washington Conference to the laboratory, 391 (1999) 135

# Response mechanism

Novel response mechanism and application of sulfite sensitive polymeric membrane electrode based on dithiocarbamate complexes of mercury(II), 310 (1995) 211

# Response surface

A new multivariate approach for the optimisation of the simultaneous distillation-extraction technique for free fatty acids using a face centred cube experimental design: application to Parmigiano-Reggiano cheese, 386 (1999) 169

# Response surface analysis

Application of the split-plot experimental design for the optimization of a catalytic procedure for the determination of Cr(VI), 369 (1998) 269

### Response surface methodology

Sequential response surface methodology for multioptimization in analytical chemistry with three-variable Doehlert designs, 348 (1997) 237

### Response surface modelling

Sequential injection determination of D-glucose by chemiluminescence using an open tubular immobilised enzyme reactor, 326 (1996) 1

### Restoration/conservation of works of art

Fourier transform infrared spectroscopy and the analytical study of works of art for purposes of diagnosis and conservation, 330 (1996) 207

### Restricted Tucker3

Calibration methods for complex second-order data, 398 (1999) 237

#### Retarder

Measurement of enantiomeric purity by ratio chromatograms with a photometric detector using quartz plates as a multiple retarder, 396 (1999) 125

# Retention behavior

Retention behavior of polycyclic aromatic hydrocarbons in microcolumn liquid chromatography with acridine derivative as stationary phase, 370 (1998) 125

# Retention indices

Modelling of gas chromatographic retention indices using counterpropagation neural networks, 348 (1997) 215

### Retention mechanisms

Thermodynamic investigation of sample retention mechanism in ion-exclusion chromatography with inclusion compound in the mobile phase, 306 (1995) 267

Temperature and solvation effects on homologous series selectivity in reversed phase liquid chromatography, 307 (1995) 203

Characterization of polybutadiene-coated zirconia and comparison to conventional bonded phases by use of linear solvation energy relationships, 334 (1996) 239

Determination of lanthanides by ion chromatography. Separation and retention mechanism, 353 (1997) 239

### Retention modelling

Description of the partitioning behaviour of solutes and data treatment in micellar liquid chromatography with modifiers, 324 (1996) 163

# Retention prediction

Comparative prediction of the retention behaviour of small peptides in several reversed-phase high-performance liquid chromatography columns by using partial least squares and multiple linear regression, 326 (1996) 77

# Retention time

Separation of sets of mono- and diphosphorylated peptides by reversed-phase high performance liquid chromatography, 352 (1997) 327

### Retention-activity relationship

Micellar electrokinetic chromatography of highly hydrophobic peptides, 372 (1998) 273

### Reticulated vitreous carbon

Polyethyleneimine-coated reticulated vitreous carbon electrode with immobilized enzymes as a substrate detector, 374 (1998) 185

### Retinol binding protein

CCD-camera based capillary chemiluminescent detection of retinol binding protein, 387 (1999) 21

### Reverse microdialysis

Application of reverse microdialysis in the evaluation of neural regulation of cardiovascular functions, 379 (1999) 275

# Reverse phase adsorption

Comparison of microscale cleaning procedures for (Glyco) proteins prior to positive ion matrix-assisted laser desorption ionization mass spectrometry, 372 (1998) 187

### Reverse polarity capillary electrophoresis

Metal ion interferences in reverse polarity capillary zone electrophoretic analysis of Hanford Defense Waste for ethylenediaminetetraacetic acid (EDTA) and *n*-hydroxyethylethylenediaminetriacetic acid (HEDTA), 396 (1999) 105

# Reversed micelles

Advances in amperometric enzyme electrodes in reversed micelles, 315 (1995) 93

Amperometric selective biosensing of dimetyyl- and diethyldithiocarbamates based on inhibition processes in a medium of reversed micelles, 340 (1997) 89

### Reversed phase

Temperature and solvation effects on homologous series selectivity in reversed phase liquid chromatography, 307 (1995) 203

# Reversed-phase chromatography

Discrimination of D/L-amino acid in peptide sequence based on fluorescent chiral derivatization by reversed-phase liquid chromatography, 352 (1997) 357

# Reversed-phase high performance liquid chromatography

Serum stability of phosphopeptides, 352 (1997) 319

General equation for determining the dissociation constants of polyprotic acids and bases from additive properties. Part II. Applications, 390 (1999) 267

### Reversed-phase HPLC

High performance liquid chromatographic analysis of human hemoglobins and their polypeptide chains: its use in the identification of variants, 352 (1997) 187 Oxidation and reduction of thymosin β<sub>4</sub> and its influence on the interaction with G-actin studied by reverse-phase HPLC and post-column derivatization with fluorescamine, 352 (1997) 249

Monitoring of α-helical secondary structures in peptides by reversed-phase HPLC of replacement sets, 352 (1997) 365

# Reversed-phase LC

Separation of nucleosides and their bases by reversed-phase liquid chromatography using pure water as the mobile phase, 353 (1997) 143

# Reversed-phase liquid chromatography

Simultaneous determination of zirconium and hafnium as ternary complexes with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol and fluoride by reversed-phase liquid chromatography, 361 (1998) 177

Conjoint prediction of the retention of neutral and ionic compounds (phenols) in reversed-phase liquid chromatography using the solvation parameter model, 368 (1998) 129

Retention behavior of polycyclic aromatic hydrocarbons in microcolumn liquid chromatography with acridine derivative as stationary phase, 370 (1998) 125

Quantitative analysis of human serum albumin-drug interactions using reversed-phase and ion-exchange liquid chromatography, 378 (1999) 77

Modelling of the elution behaviour in hybrid micellar eluents with different organic modifiers, 381 (1999) 275

On-line screening method for antioxidants by liquid chromatography with chemiluminescence detection, 383 (1999) 221

Solvatochromic studies of solvation effects in reversed-phase liquid chromatography with addition of 1-propanol, 388 (1999) 345

Evaluation of trifluoroacetic acid as an ion-pair reagent in the separation of small ionizable molecules by reversed-phase liquid chromatography, 399 (1999) 249

# Reverse-micelles

Reverse-micelle formation: a strategy for enhancing  $CO_2$ -supercritical fluid extraction of polar analytes, 358 (1998) 1

# Reverse-phase chromatography

Conformational aspects of model chromatographic surfaces studied by sum-frequency generation, 397 (1999) 81

# Reverse-phase evaporation

Production and characterization of sulforhodamine B containing large unilamellar vesicles labeled with atrazine, 399 (1999) 185

### Reverse-phase optode membrane

Reverse-phase optode. Design and characterization of an organic acid-selective optode membrane based on fluorescein sodium, 322 (1996) 99

Oxygen-sensitive reverse-phase optode membrane using silica geladsorbed ruthenium(II) complex embedded in gelatin film, 387 (1999) 197

### Reversibility

General type of a uniform and reversible representation of chemical structures, 348 (1997) 409

Pulsed electrochemical technique for monitoring antibody-antigen reactions at interfaces, 376 (1998) 125

Ionophores, ligands and reactands, 400 (1999) 65

#### Reversible immobilization

Application of reversible immobilization techniques for biosensors, 368 (1998) 197

#### Review

Ultramicroelectrodes in kinetic investigations supported by simulation. A review with some additional examples, 305 (1995) 96

Mathematical modelling of flow-injection systems, 308 (1995) 36 Immunochemical techniques: antibody production for pesticide analysis. A review, 311 (1995) 393

On-line sample handling strategies for the trace-level determination of pesticides and their degradation products in environmental waters, 318 (1995) 1

UV-photooxidation as pretreatment step in inorganic analysis of environmental samples, 325 (1996) 111

Peroxidase-modified electrodes: Fundamentals and application, 330 (1996) 123

Determination of platinum and gold in anticancer and antiarthritic drugs and metabolites, 334 (1996) 5

Accurate quantification of quartz and other phases by powder X-ray diffractometry, 337 (1997) 233

Sampling of polar pesticides from water matrices, 338 (1997) 3 Strengths and limitations of immunoassays for effective and efficient use for pesticide analysis in water samples: A review, 362

Soxhlet extraction of solid materials: an outdated technique with a promising innovative future, 369 (1998) 1

Analytical applications of tris(2,2'-bipyridyl)ruthenium(III) as a chemiluminescent reagent, 378 (1999) 1

Methods and issues in microdialysis calibration, 379 (1999) 337 Affinity capillary electrophoresis of proteins and peptides, 383 (1999) 61

Recent advances in the capillary electrophoresis of recombinant glycoproteins, 383 (1999) 137

Electrophoretic analysis of proteins in bile, 383 (1999) 185

Zeolite-modified electrodes in electroanalytical chemistry, 384 (1999) 1

### Rhenium

Spectrophotometric determination of rhenium as perrhenate by extraction with amiloride hydrochloride, 322 (1996) 107

Separation of osmium from geological materials by solvent extraction for analysis by thermal ionisation mass spectrometry, 332 (1996) 269

### Rhodamine

Determination of oxacyanine dyes and rhodamine by a second harmonic generation technique using a femtosecond laser, 330 (1996) 117

# Rhodamine B

Chemiluminescence determination of captopril based on a Rhodamine B sensitized cerium(IV) method, 303 (1995) 121

Catalytic spectrophotometric methods for the determination of oxalic acid, 320 (1996) 139

Ammonia fluorosensors based on reversible lactonization of polymer-entrapped rhodamine dyes, and the effects of plasticizers, 334 (1996) 113

Fluorosensors for ammonia using rhodamines immobilized in plasticized poly(vinyl chloride) and in sol-gel; a comparative study, 342 (1997) 207

Flow-injection chemiluminometric determination of some phenothiazines in dosage forms and biological fluids, 358 (1998) 255

Simple and sensitive assay for nucleic acids by use of Rayleigh light scattering technique with rhodamine B, 379 (1999) 39

Highly sensitive electrochemical luminescence determination of thiamine, 394 (1999) 165

#### Rhodamine 6G

Spectrophotometric method for the determination of an anionic surfactant without liquid-liquid extraction, 362 (1998) 157

Humidity-sensitive optode membrane based on a fluorescent dye immobilized in gelatin film, 378 (1999) 127

Chemiluminescence of sulfite based on auto-oxidation sensitized by rhodamine 6G, 391 (1999) 95

#### Rhodanese

A novel biosensor system for cyanide based on a chemiluminescence reaction, 329 (1996) 111

#### Rhodium

Highly selective biosensing of lactate at lactate oxidase containing rhodium-dispersed carbon paste electrodes, 304 (1995) 41

Analytical problems in the determination of platinum-group metals in urine by quadrupole and magnetic sector field inductively coupled plasma mass spectrometry, 363 (1998) 1

### Rhodium as matrix modifier

Minimization of phosphate interference in the direct determination of arsenic in urine by electrothermal atomic absorption spectrometry, 334 (1996) 177

### Rhodium catalyst

Solvent-resistant carbon electrodes screen printed onto plastic for use in biosensors, 347 (1997) 9

### Rhodium co-deposition

Electrochemical metallisation of carbon electrodes, 373 (1998) 261

# **Rhodium extraction**

Chemical pumping of rhodium by a supported liquid membrane containing Aliquat 336 as carrier, 346 (1997) 199

### Rhodopseudomonas viridis

Successfully controlled isomerization and pheophytinization of bacteriochlorophyll b by weak acid in the dark in vitro, 361 (1998) 285

### Riboflavin

An optosensor for riboflavin with C<sub>18</sub> silica gel as a substrate, 339 (1997) 161

### Riboflavin sulphates

Thermospray and electrospray mass spectrometry of flavocoenzymes. Analysis of riboflavin sulphates from sugar beet, 302 (1995) 215

#### Ribozyme

Minimization of genomic human hepatitis delta virus ribozyme, 365 (1998) 309

#### Rice

Development of a competitive enzyme-linked immunosorbent assay based on a monoclonal antibody for a fungicide flutolanil, 376 (1998) 93

#### Rideau River surface waters

Effect of the competition of copper and cobalt on the lability of Ni(II)-organic ligand complexes, Part II: in freshwaters (Rideau River surface waters), 395 (1999) 323

# Ridge regression

Relevant physicochemical factors in chromatographic separation of Alternaria alternata mycotoxins, 370 (1998) 79

Chemometrics: the issues of measurement and modelling, 400 (1999) 399

#### RIFS

Dyeless optical detection of ammonia in the gas phase using pHresponsive polymers with reflectometric interference spectroscopy, 372 (1998) 333

Flow injection immunotitration: extended working range for inhibition type immunodetection, 399 (1999) 275

### Ring test

Anthocyanic pigment determination in red fruit juices, concentrated juices and syrups using liquid chromatography, 382 (1999) 39

# River borne particles

Separation of particulate environmental samples by SPLITT fractionation using different operating modes, 345 (1997) 99

# River pollution

Pollution of a river basin and its evolution with time studied by multivariate statistical analysis, 310 (1995) 15

### River sediments

Determination of Co and Ni in soils and river sediments by electrothermal atomic absorption spectrometry with slurry sampling, 355 (1997) 277

### River water

New enzyme sensor for sulfite analysis in sea and river water samples, 305 (1995) 32

Determination of nitrobenzenes in river water, sediment and fish samples by gas chromatography-mass spectrometry, 312 (1995) 45

Direct determination of ultratraces of thallium in water by flowinjection-differential-pulse anodic stripping voltammetry, 318 (1996) 159

Simultaneous determination of inorganic anions and metal ions by suppressed ion chromatography, 382 (1999) 291

### River water analysis

Sensitive and rapid flow injection analysis of sulfonylurea herbicides in water with micellar-enhanced photochemically induced fluorescence detection, 392 (1999) 255

### RLS

Synthesis of a new triazene reagent and its application for the determination of silver(I) by the Rayleigh light-scattering, 388 (1999) 45

### RNA

Trace measurements of nucleic acids using flow injection amperometry, 319 (1996) 347

Adsorptive potentiometric stripping analysis of nucleic acids at mercury electrodes, 349 (1997) 77

Study of the reaction between nucleic acids and the trihydroxyanthroquinone-Al complex and its analytical application, 392 (1999) 291

Determination of nucleic acids using phosphin 3R as a fluorescence probe, 394 (1999) 177

### RNA, Monosaccharides

In vitro selection of aptamers that recognize a monosaccharide, 365 (1998) 95

### RNase H

Prediction of an antisense-effective target site on VEGFmRNA by using RNase H and a library of random oligonucleotides, 365 (1998) 55

#### RNV

The robust normal variate transform for pattern recognition with near-infrared data, 382 (1999) 87

#### Robotics

Microwave-assisted robotic method for the determination of trace metals in soil, 308 (1995) 371

Automated conductometry: robotic station for analytical titrations, 317 (1995) 127

Towards the most rational use of robotics within the overall analytical process, 384 (1999) 117

### Robots

Determination of soil pH using a laboratory robot, 310 (1995) 319

A robotic-flow injection approach to the fully automated determination of starch in food, 333 (1996) 205

### Robust backpropagation learning algorithm

Neural networks with robust backpropagation learning algorithm, 322 (1996) 21

# Robust orthogonal regression

Robust orthogonal regression for the outlier detection when comparing two series of measurement results, 344 (1997) 17

# Robust regression

Robust regression used for the treatment of partial non-linearity in multivariate calibration, 313 (1995) 185

Simultaneous immunoassay using piezoelectric immunosensor array and robust method, 336 (1996) 185

### Robustness

Quality of resolution of black multicomponent systems, 390 (1999)

Ion sensors: current limits and new trends, 393 (1999) 11

### Rocks

Application of ion-exchanger phase visible light absorption to flow analysis. Determination of vanadium in natural water and rock, 317 (1995) 207

# Room temperature luminescence

Determination of terbium with solid surface room temperature luminescence optosensing, 322 (1996) 167

### Room temperature phosphorescence

Sensitized room temperature phosphorescence of biacetyl in AOT reversed micelles-dodecylammonium  $\alpha$ -naphthylacetate as energy donor, 319 (1996) 231

Solid surface room temperature phosphorescence of tetracycline antibiotics, 319 (1996) 239

Study of new facile deoxygenation methods in cyclodextrin induced room temperature phosphorescence, 357 (1997) 119

Sol-gel immobilized room-temperature phosphorescent metalchelate as luminescent oxygen sensing material, 360 (1998) 17

Room temperature phosphorescence flow-through biosensing of anionic surfactants, 371 (1998) 73

Phosphorimetric determination of nafronyl in pharmaceutical preparations, 382 (1999) 77

Flow-through room temperature phosphorescence optosensing for the determination of lead in sea water, 395 (1999) 1

### Room temperature phosphorimetry

Room temperature phosphorescence of palladium(II)-coproporphyrin III complex in a precipitated nonionic surfactant micelle phase: determination of traces of palladium(II), 320 (1996) 133

Solid-substrate and micellar-stabilized room temperature phosphorescence of two anilinonaphthalenesulfonates, 322 (1996) 91

Determination of p-aminobenzoic acid in the presence of bovine serum albumin by room-temperature phosphorimetry on a poly-(vinyl alcohol) substrate, 367 (1998) 33

### Room temperature vulcanization

One-component room temperature vulcanizing-type silicone rubber-based sodium-selective membrane electrodes, 355 (1997) 249

# Rose Bengal B

Photokinetic study of the Rose Bengal B-tin(II) reaction. Determination of tin in metals, 325 (1996) 81

### Rotating ball inlet

Measurement of inorganic acids with rotating ball inlet mass spectrometry, 390 (1999) 185

# Rotating bioreactors

Enzymatic determinations with rotating bioreactors: Determination of glutamate in food products, 369 (1998) 147

Simultaneous biosensing of ethanol and glucose with combined use of a rotating bioreactor and a stationary column reactor, 380 (1999) 1

### Rotating disk electrode (RDE)

Micro volume rotating disk electrode (RDE) amperometric detection for a bead-based immunoassay, 399 (1999) 3

### Rotating ring-disc electrode

Kinetics of the electrochemical bromination of some unsaturated fatty acids by the rotating ring-disc electrode technique, 376 (1998) 357

# Roughness penalty

Smoothed window factor analysis, 381 (1999) 233

### RP-chromatography

Reversed-phase chromatography of pentosidine-containing CNBr peptides from collagen, 352 (1997) 257

### RP-HPLC

HPLC and post-column derivatization with fluorescamine: isolation of actin-sequestering β-thymosins by reversed-phase HPLC, 352 (1997) 239

Serum stability of phosphopeptides, 352 (1997) 319

#### RP-LC

Ultrasonication extraction and solid phase extraction clean-up for determination of US EPA 16 priority pollutant polycyclic aromatic hydrocarbons in soils by reversed-phase liquid chromatography with ultraviolet absorption detection, 364 (1998) 1

#### rt-PA

Flow-injection immunoassay using OPA derivatization, 374 (1998) 177

### Ru(bpy)33+

Effect of organic solvent on tris(2,2'-bipyridyl)ruthenium(III) chemiluminescent reactions in flowing streams, 334 (1996) 183

On-line electrogenerated Ru(bpy)<sub>3</sub><sup>3+</sup> chemiluminescent detection of β-blockers separated with capillary electrophoresis, 347 (1997)

In situ cell for electrochemically generated Ru(bpy)<sup>3+</sup><sub>3</sub>-based chemiluminescence detection in capillary electrophoresis, 383 (1999) 213

### Rubber

Sulphur group analysis in solid matrices by atmospheric pressuretemperature programmed reduction, 395 (1999) 143

### Rubber additives

Determination of accelerators and antioxidants in vulcanized rubber by fourier transform infrared spectrophotometry, 353 (1997) 351

### Dubidina

Accurate determination of <sup>87</sup>Rb/<sup>86</sup>Sr and <sup>147</sup>Sm/<sup>144</sup>Nd ratios by inductively-coupled-plasma mass spectrometry in isotope geoscience: an alternative to isotope dilution analysis, 358 (1998) 227

# Ruggedness

Study of different criteria for the selection of a rugged optimum in high performance liquid chromatography optimisation, 348 (1997) 223 Strategy for ruggedness tests in chromatographic method validation, 391 (1999) 187

### Ruggedness testing

Influence of the sequence of experiments in a ruggedness test when drift occurs, 347 (1997) 369

### Ruggedness tests

Ruggedness tests for a high-performance liquid chromatographic assay: comparison of an evaluation at two and three levels by using two-level Plackett-Burman designs, 316 (1995) 15

Usefulness of a ruggedness test in the validation of flow injection analysis systems, 355 (1997) 195

# Rule induction

Classification of pyrolysis mass spectra by fuzzy multivariate rule induction-comparison with regression, K-nearest neighbour, neural and decision-tree methods, 348 (1997) 389

#### Rule nets

Advanced application of rule nets to the automation of chemical analysis systems, 354 (1997) 249

#### Ruthenium

Ruthenium(II) tris-(2,2'-bipyridine)-specific extrinsic lyoluminescences of x-ray irradiation colored and electrolytically colored alkali halides, 309 (1995) 197

Indirect fluorometric detection for non-suppressed ion chromatographic separation of analyte anions using ruthenium(II) complex as ion-interaction reagent, 326 (1996) 67

Spectrophotometric and coulometric titration investigations of oxidation states and forms of ruthenium(IV) in hydrochloric acid solutions, 345 (1997) 243

Rapid simultaneous determination of ruthenium and osmium in aqueous solutions of their tetroxides by second-order derivative spectrophotometry, 349 (1997) 53

Improvement of Tc separation procedure using a chromatographic resin for direct measurement by ICP-MS, 357 (1997) 1

Electrochemical metallisation of carbon electrodes, 373 (1998) 261

Detection of active methylene compounds having cyano and carbonyl groups with chemiluminescent reaction using tris(2,2'bipyridine)ruthenium(III) prepared by on-line electrochemical oxidation, 378 (1999) 43

Investigation of metallodrug-protein interactions by size-exclusion chromatography coupled with inductively coupled plasma mass spectrometry (ICP-MS), 387 (1999) 135

Coprecipitation of ruthenium with chitosan and its determination by graphite furnace atomic absorption spectrometry, 398 (1999) 289

### Ruthenium complex

Integrated sensor for continuous flow electrochemiluminescent measurements of codeine with different ruthenium complexes, 392 (1999) 95

### Ruthenium dioxide

Screen-printed ruthenium dioxide electrodes for pH measurements, 351 (1997) 143

### Ruthenium fluorescence quenching

Linear calibration function for optical oxygen sensors based on quenching of ruthenium fluorescence, 368 (1998) 83

# Ruthenium porphyrin

Electrochemical detection of NADH and dopamine in flow analysis based on tetraruthenated porphyrin modified electrodes, 329 (1996) 91

# Ruthenium(II) complex

Oxygen-sensitive reverse-phase optode membrane using silica geladsorbed ruthenium(II) complex embedded in gelatin film, 387 (1999) 197

# Ruthenium-based inorganic films

Electrocatalysis and amperometric detection of ethanol at ruthenium-based inorganic films with improved response stability, 310 (1995) 257

#### Rutin

Determination of the formation constant for the inclusion complex between rutin and methyl-β-cyclodextrin, 315 (1995) 357

Preconcentration at a carbon-paste electrode and determination by adsorptive-stripping voltammetry of rutin and other flavonoids, 320 (1996) 255

A simple alternative determination of the formation constant for the inclusion complex between rutin and β-cyclodextrin, 329 (1996) 311

# S

### S. aureus

A rapid method for determination of Staphylococcus aureus based on milk coagulation by using a series piezoelectric quartz crystal sensor, 369 (1998) 139

# S. pyogenes

Application of Western-blotting technique with chemiluminescence imaging to the study of haptoglobin type and haptoglobin complexes, 362 (1998) 113

# Saccharide

Selective adsorbents for germanium(IV) derived from chitosan, 343 (1997) 275

### Saccharin

Precipitation flow-injection method for the determination of saccharin in mixtures of sweeteners, 308 (1995) 275

### Saccharomyas cerevisiae

Evaluation of selective uptake of selenium (Se(IV) and Se(VI)) and antimony (Sb(III) and Sb(V)) species by baker's yeast cells (Saccharomyces cerevisiae), 345 (1997) 249

# Safranine T

Determination of nucleic acids at nanogram levels with safranine T by a resonance light-scattering technique, 375 (1998) 89

### Salbutamol

Determination of Ranitidine and Salbutamol by Flow Injection Analysis with Chemiluminescence Detection, 384 (1999) 151

### Salicylaldehyde

The Schiff bases of salicylaldehyde and aminopyridines as highly sensitive analytical reagents, 343 (1997) 145

# Salicylaldehyde picolinoylhydrazone

Direct fluorimetric determination of dissolved aluminum in seawater at nanomolar levels, 355 (1997) 157

# Salicylamide

First-derivative non-linear variable-angle synchronous fluorescence spectroscopy for the simultaneous determination of salicylamide, salsalate and naproxen in serum and urine, 373 (1998) 119

Direct flow injection chemiluminescence determination of salicylamide, 394 (1999) 159

#### Salicylate

Anion selective polymeric membrane electrodes based on metallocenes, 304 (1995) 171

Enzymatic sensor coupled to a flow-injection analysis system for the determination of salicylate, 305 (1995) 26

A coupled enzymatic assay for salicylate and acetylsalicylate using salicylate hydroxylase and tyrosinase, 335 (1996) 169

### Salicylate biosensor

A new amperometric biosensor for salicylate based on salicylate hydroxylase immobilized on polipyrrole film doped with hexacyanoferrate, 347 (1997) 35

### Salicylate hydroxylase

A coupled enzymatic assay for salicylate and acetylsalicylate using salicylate hydroxylase and tyrosinase, 335 (1996) 169

A new amperometric biosensor for salicylate based on salicylate hydroxylase immobilized on polipyrrole film doped with hexacyanoferrate, 347 (1997) 35

### Salicylate-sensitive tubular detector

Acetylsalicylic acid determination in pharmaceutical samples by FIA-potentiometry using a salicylate-sensitive tubular electrode with an ethylene-vinyl acetate membrane, 366 (1998) 103

# Salicylhydroxamic acid (SHAM)

Potentiometric determination of salicylhydroxamic acid (urinary struvite stone inhibitor) based on the inhibition of urease activity, 351 (1997) 91

### Salicylic acid

Derivative linear variable-angle scanning fluorescence spectrometry for the determination of closely overlapping drug mixtures, 319 (1996) 361

Synchronous scanning second derivative spectrofluorimetry for the simultaneous determination of diffunisal and salicylic acid added to serum and urine as ternary complexes with terbium and EDTA, 320 (1996) 107

Kinetic determination of salicylic acid, diflunisal and their mixture based on lanthanide-sensitized luminescence, 329 (1996) 135

Computer program for the determination of salicylic acid content in aspirin by derivative spectrometry, 333 (1996) 181

#### Salinity

Elimination of the Schlieren effect in the determination of reactive phosphorus in estuarine waters by flow-injection analysis, 351 (1997) 265

#### Saliva

Determination of mercury in saliva with a flow-injection system, 320 (1996) 171

Monitor of antibodies in human saliva using a piezoelectric quartz crystal biosensor, 365 (1998) 147

Rapid screening method for cocaine and benzoylecgonine in saliva samples, 372 (1998) 349

Fluorimetric method for the determination of thiocyanate with 2',7'dichlorofluorescein and iodine, 394 (1999) 171

### Salmon calcitonin

Determination of salmon calcitonin by square wave adsorptive stripping voltammetry, 351 (1997) 65

#### Salmonella

Highly sensitive flow-injection immunoassay system for rapid detection of bacteria, 399 (1999) 99

#### Salsalate

First-derivative non-linear variable-angle synchronous fluorescence spectroscopy for the simultaneous determination of salicylamide, salsalate and naproxen in serum and urine, 373 (1998) 119

### Salt bridge

Separation of sets of mono- and diphosphorylated peptides by reversed-phase high performance liquid chromatography, 352 (1997) 327

# Salt-induced phase-separation

Hydrophobic salt-induced phase-separation and extraction for sample preparation in chromatographic determination of heavy metal ions as dibenzyldithiocarbamates, 356 (1997) 135

### Saltzman's reagent

Development of a monitoring tape for nitrogen dioxide in air, 321 (1996) 41

### SAM

Modified electrode surfaces for catalytic reduction of carbon dioxide, 396 (1999) 1

# Samarium

Studies on monoxide emission spectrometry of rare-earth elements.

IV. Simultaneous determination of Sm, Eu, Gd in Sm-EuGd concentrates by the dual wavelength method, 350 (1997)
365

Simultaneous determination of neodymium and samarium in silicate rocks and minerals by isotope dilution inductively coupled plasma mass spectrometry: Results on twenty geochemical reference samples, 351 (1997) 325

Accurate determination of <sup>87</sup>Rb/<sup>86</sup>Sr and <sup>147</sup>Sm/<sup>144</sup>Nd ratios by inductively-coupled-plasma mass spectrometry in isotope geoscience: an alternative to isotope dilution analysis, 358 (1998) 227

### Sample clean-up

Evaluation of detection and sample clean-up techniques for on- and off-line fermentation monitoring systems, 324 (1996) 103

# Sample digestion

Introduction of hydrogen peroxide as an oxidant in flow injection analysis: speciation of Cr(III) and Cr(VI), 361 (1998) 125

### Sample dispersion

Concentration non-uniformities and averages in flow-through spectrophotometric measurements, 363 (1998) 171

### Sample injection

A new sample-injection/sample-dilution system for the flow-injection analytical technique, 381 (1999) 287

### Sample introduction

The uncertainty of carbon dioxide determination in gaseous mixtures, 318 (1996) 327

Characterization of a membrane interface designed for analytical scale sample introduction into a mass spectrometer, 327 (1996) 1 Membrane introduction mass spectrometry, 350 (1997) 257

Combination of flow injection with capillary electrophoresis. Part 2.

Chiral separation of intermediate enantiomers in chloramphenicol synthesis. 353 (1997) 199

Combination of flow injection with capillary electrophoresis. Part 6. A bias-free sample introduction system based on electroosmotic-flow traction, 398 (1999) 65

### Sample matrix

Computational neural networks for the evaluation of biosensor FIA measurements, 348 (1997) 135

# Sample positioning

Quantitative electron paramagnetic resonance (EPR) spectrometry with a TE<sub>104</sub> double rectangular cavity Part 1. A simple alignment procedure for the precision positioning of the sample, 333 (1996) 249

### Sample preconcentration

Passive monitoring of trace metals in water by in situ sample preconcentration via chelation on a textile based solid sorbent, 341 (1997) 229

### Sample preparation

Sensors and sample preparation in stripping voltammetry, 305 (1995) 146

Sequential-injection extraction for sample preparation, 337 (1997)

Hydrolysis of proteins performed at high temperatures and for short times with reduced racemization, in order to determine the enantiomers of D - and L-amino acids, 339 (1997) 99

Validation of an automated method for the liquid chromatographic determination of atenolol in plasma: application of a new validation protocol, 391 (1999) 227

### Sample preparation for liquid chromatography

Hydrophobic salt-induced phase-separation and extraction for sample preparation in chromatographic determination of heavy metal ions as dibenzyldithiocarbamates, 356 (1997) 135

### Sample pretreatment

Element determination by total-reflection X-ray fluorescence spectrometry at the initial step of element speciation in biological matrices, 309 (1995) 327

Direct observation of sample trapping process onto internal-surface reversed-phase pre-column, 365 (1998) 115

Trends of flow injection sample pretreatment approaching the new millennium, 400 (1999) 233

### Sample recirculation

Continuous sample recirculation in an opened-loop multicommutated flow system, 377 (1998) 103

#### Sample selection

Assessing the validity of principal component regression models in different analytical conditions, 337 (1997) 287

### Sample set-up

Quantitative electron paramagnetic resonance (EPR) spectrometry with a TE<sub>104</sub> double rectangular cavity Part 1. A simple alignment procedure for the precision positioning of the sample, 333 (1996) 249

#### Sample size

Estimation of effective sample size when analysing powders with diffuse reflectance near-infrared spectrometry, 364 (1998) 243

### Samples preconcentration

Thylakoid membranes-based test-system for detecting of trace quantities of the photosynthesis-inhibiting herbicides in drinking water, 391 (1999) 1

# Sample-to-standard addition methods

Use of flow-injection sample-to-standard addition methods for quantification of metals leached by selective chemical extraction from sewage sludge, 381 (1999) 297

### Sampling

Sampling of polar pesticides from water matrices, 338 (1997) 3

# Sampling aerosols

Sampling aerosols for lead isotopes on a global scale, 390 (1999) 227

# Sampling error

Comparison of some methods to estimate the limiting value of the variogram,  $v_h(j)$ , for the sampling interval j=0 in sampling error estimation, 346 (1997) 277

# Sampling techniques

Sampling strategies in sequential injection analysis: Exploiting the monosegmented-flow approach, 366 (1998) 257

# Sandwich immunoassay

Micro volume rotating disk electrode (RDE) amperometric detection for a bead-based immunoassay, 399 (1999) 3

# Sandwich technique

Flow injection sandwich technique applied to indirect visible spectrophotometric determinations. Bromimetric and iodimetric determination of sulphite, 318 (1995) 55 Sequential injection sandwich technique for the simultaneous determination of nitrate and nitrite, 371 (1998) 63

### Saponification

Characterization of engine motor oils dispersants of the polybutenylsuccinimide type by saponification, methylation and size exclusion chromatography, 322 (1996) 31

#### Sarcosine oxidase

An on-line flow-injection analysis system for the determination of acetate, 316 (1995) 117

A highly sensitive amperometric creatinine sensor, 351 (1997) 151

### Satterthwaite approximation

Comparison of alternative measurement methods, 391 (1999) 203

# Saturated fractional factorial design

Application of Doehlert optimization and factorial designs in developing and validating a solid-phase spectrophotometric determination of trace levels of cadmium, 382 (1999) 117

#### **sBLM**

Ellipsometric determination of the structure of surface-stabilized bilayer lipid membranes on silver metal, 357 (1997) 73

#### Scalogram

Variable selection in wavelet regression models, 368 (1998) 29

### Scalp hair

Determination of nickel in human scalp hair by slurry sampling electrothermal atomic absorption spectrometry, 349 (1997) 319

### Scandium

Selective separation and determination of scandium from yttrium and lanthanides in red mud by a combined ion exchange/solvent extraction method, 315 (1995) 231

Determination of scandium in geological materials, rare earth minerals and niobate/tantalate-type of samples by inductively coupled plasma atomic emission spectrometry after solvent extraction/acid hydrolysis separation, 376 (1998) 273

# Scanning electron microscopy

Classification of airborne particles by analytical scanning electron microscopy imaging and a modified Kohonen neural network (3MAP), 310 (1995) 1

Characterisation of an unusual crystalline efflorescence on an Egyptian limestone relief, 337 (1997) 151

# Scanning tunneling microscopy

Surface-confined monomers on electrode surfaces Part 3. Electrochemical reactions and scanning probe microscopy investigations of  $\omega$ -(N-pyrrolyl) alkanethiol self-assembled monolayers on gold, 307 (1995) 269

Atomic-scale view of motion on surfaces, 307 (1995) 355

Scanning tunneling microscopic observations of commensurate crystalline structures for horizontally deposited cadmium stearate bilayers on graphite, 307 (1995) 377

Surface morphology and the response of piezoelectric gas sensors, 315 (1995) 83

### Scattering

Time-resolved spectroscopy of long-path fluorescence and scattering for measuring total absorption of fluids, 330 (1996) 183

#### Scattering media

Quantitative constituent measurements in scattering media from statistical analysis of photon time-of-flight distributions, 348 (1997) 543

### Scavengers

Application of electrochemical and spin trapping techniques in the investigation of hydroxyl radicals, 389 (1999) 213

#### Schiff bases

Tautomeric and protonation equilibria of Schiff bases of salicylaldehyde with aminopyridines, 343 (1997) 135

The Schiff bases of salicylaldehyde and aminopyridines as highly sensitive analytical reagents, 343 (1997) 145

Affinity liquid membrane introduction mass spectrometry, 395 (1999) 239

### Schistosoma japonicum antibody

A direct immunoassay for schistosoma japonium antibody (SjAb) in serum by piezoelectric body acoustic wave sensor, 398 (1999) 57

#### Schlieren effect

Elimination of the Schlieren effect in the determination of reactive phosphorus in estuarine waters by flow-injection analysis, 351 (1997) 265

Simultaneous multiple injection in monosegmented flow analysis, 371 (1998) 317

### Schlieren noise

A new approach for compensating concentration gradients in flow analysis, 331 (1996) 17

### Schubert's method

Europium binding by fulvic acids, 369 (1998) 171

### Scintillator

A simple, highly stable scintillator light source for ultraviolet absorption-based sensors, 367 (1998) 153

# Screen printed electrodes

A reagentless, disposable biosensor for lactic acid based on a screenprinted carbon electrode containing Meldola's Blue and coated with lactate dehydrogenase, NAD\* and cellulose acetate, 304 (1995) 17

Sequence-specific electrochemical biosensing of M. tuberculosis DNA, 337 (1997) 41

Disposable screen-printed electrodes for the immunochemical detection of polychlorinated biphenyls, 342 (1997) 189

A disposable amperometric gas sensor for sulphur-containing compounds based on a chemically modified screen printed carbon electrode coated with a hydrogel, 342 (1997) 199

Solvent-resistant carbon electrodes screen printed onto plastic for use in biosensors, 347 (1997) 9

Assessment of glucose oxidase behaviour in alcoholic solutions using disposable electrodes, 368 (1998) 219

Electrochemical metallisation of carbon electrodes, 373 (1998) 261

Portable fractionation device and screen-printed electrode for measurement of reactive aluminium in environmental samples, 381 (1999) 49

Immobilization of enzyme on screen-printed electrode by exposure to glutaraldehyde vapour for the construction of amperometric acetylcholinesterase electrodes, 382 (1999) 277

Amperometric immunosensor for granulocyte-macrophage colonystimulating factor using screen-printed electrodes, 389 (1999) 171

Receptor binding protein amperometric affinity sensor for rapid βlactam quantification in milk, 398 (1999) 13

Development of an electrochemical flow injection immunoassay (FIIA) for the real-time monitoring of biospecific interactions, 400 (1999) 109

### Screening

Enzyme immunoassays for s-triazine herbicides and their application in environmental and food analysis, 311 (1995) 349

Assessment of a screening method for metals in seawater based on the non-selective reagent 4-(2-pyridylazo)resorcinol (PAR), 371 (1998) 227

### Screening system

An automated screening system for benzodiazepines in human urine, 366 (1998) 93

### Screening-test

Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165

# Screen-printed carbon electrodes

Electrochemical behaviour of triclosan at a screen-printed carbon electrode and its voltammetric determination in toothpaste and mouthrinse products, 390 (1999) 107

# **Screen-printing**

Amperometric glucose biosensor manufactured by a printing technique, 304 (1995) 157

A disposable reagentless screen-printed amperometric biosensor for the measurement of alcohol in beverages, 329 (1996)

Screen-printed ruthenium dioxide electrodes for pH measurements, 351 (1997) 143

Development of an amperometric assay for NH<sub>4</sub><sup>+</sup> based on a chemically modified screen-printed NADH sensor, 373 (1998) 1 Estimation of lactate in meat extracts by screen-printed sensors, 386

(1999)7

# Screen-printing technology

Disposable strip potentiometric electrodes with solvent-polymeric ion-selective membranes fabricated using screen-printing technology, 385 (1999) 451

# SDE

Selective extraction of polychlorinated biphenyls from dairy products using steam distillation-solvent extraction at normal pressure, 376 (1998) 313

### SDS polyacrylamide gel electrophoresis (SDS-PAGE)

Evaluation of commonly used electrophoretic methods for the analysis of proteins and peptides and their application to biotechnology, 383 (1999) 47

#### SDS-PAGE

Electrophoretic characterisation of the major cat parotid salivary protein, 372 (1998) 249

Electrophoretic methods for the isolation and characterization of enzymes, 383 (1999) 109

#### Se

Determination of Ge, As, Se, Cd and Pb in plant materials by slurry sampling-electrothermal vaporization-inductively coupled plasma-mass spectrometry, 372 (1998) 365

# Sea and spring water analysis

Determination of bisphenol A (BPA) in water by gas chromatography-mass spectrometry, 346 (1997) 87

#### Sea water

Determination of triphenyltin in sea water samples by liquid chromatography with fluorimetric detection, 302 (1995) 185

Determination of phenols in sea water by liquid chromatography with electrochemical detection after enrichment by using solidphase extraction cartridges and disks, 304 (1995) 75

Determination of molybdenum in sea water by solid-phase spectrophotometry, 304 (1995) 243

New enzyme sensor for sulfite analysis in sea and river water samples, 305 (1995) 32

Voltammetric determination of trace mercury in chloride media at glassy carbon electrodes modified with polycationic ionomers, 305 (1995) 74

Determination of copper, cadmium, iron, manganese, nickel and zinc in Antarctic sea water. Comparison of electrochemical and spectroscopic procedures, 305 (1995) 200

Characterization and reduction of interferences in flow-injection analysis for the in situ determination of nitrate and nitrite in sea water, 308 (1995) 413

Iron(II) and iron(III) determination in sea water at the nanomolar level with selective on-line preconcentration and spectrophotometric determination, 308 (1995) 425

Determination of sub-nanomolar concentrations of lead in sea water by adsorptive stripping voltammetry with xylenol orange, 309 (1995) 95

Shipboard flow injection determination of sea water pH with spectrophotometric detection, 309 (1995) 259

Remote stripping electrode for in situ monitoring of labile copper in the marine environment, 310 (1995) 223

Spectrophotometric determination of uranium in natural water with the new chromogenic reagent p-carboxychlorophosphonazo, 314 (1995) 95

Model compounds for the determination of organic and total phosphorus dissolved in natural waters, 318 (1996) 385

Direct determination of bromide ions in sea water by ion chromatography using water as the mobile phase, 322 (1996) 43

On-line separation and preconcentration of chromium species in seawater, 325 (1996) 185 Magnetic recovery of radium, lead and polonium from seawater samples after preconcentration on a magnetic adsorbent of manganese dioxide coated magnetite, 328 (1996) 53

Alternative indirect method for sulfate determination in natural samples, 329 (1996) 197

Performance of two immunoassays for the determination of atrazine in sea water samples as compared with on-line solid phase extraction-liquid chromatography-diode array detection, 330 (1996) 41

Determination of trimethylamine oxide in seawater and small volumes of seafood tissue extract using flow injection analysis, 334 (1996) 279

Simultaneous determination of several trace metals in seawater using cathodic stripping voltammetry with mixed ligands, 337 (1997) 29

A flexible computer-based technique for the analysis of data from a sea-going nutrient autoanalyser, 345 (1997) 197

Assessment of heat treatment for nutrient preservation in seawater samples, 351 (1997) 299

Speciation of Cu, Pb, Cd and Hg in waters of the Oporto coast in Portugal, using pre-concentration in a Chelamine resin column, 353 (1997) 189

Direct fluorimetric determination of dissolved aluminum in seawater at nanomolar levels, 355 (1997) 157

Analysis and storage of samples for chromium determination in seawater, 356 (1997) 35

A simple and sensitive method for the determination of volatile halogenated organic compounds in sea water in the amol 1<sup>-1</sup> to pmol 1<sup>-1</sup> range, 357 (1997) 197

Determination of sub-nanomolar levels of iron in seawater using flow injection with chemiluminescence detection, 361 (1998) 189

Determination of trace elements in seawater by fluorinated metal alkoxide glass-immobilized 8-hydroxyquinoline concentration and high-resolution inductively coupled plasma mass spectrometry detection, 363 (1998) 11

Direct trace determination of lead in estuarine water using in situ preconcentration of lead hydride on Ir, Zr and W-coated graphite tubes, 368 (1998) 281

Speciative determination of chromium(VI) and chromium(III) using flow-injection on-line preconcentration and flame atomic-absorption spectrometric detection, 369 (1998) 69

Precise determination of lithium isotopic composition by thermal ionization mass spectrometry in natural samples such as seawater, 370 (1998) 215

Shipboard determination of hydrogen peroxide in the western Mediterranean sea using flow injection with chemiluminescence detection, 371 (1998) 205

Assessment of a screening method for metals in seawater based on the non-selective reagent 4-(2-pyridylazo)resorcinol (PAR), 371 (1998) 227

Selective medium reactions for the 'arsenic(III)', 'arsenic(V)', dimethylarsonic acid and monomethylarsonic acid determination in waters by hydride generation on-line electrothermal atomic absorption spectrometry with in situ preconcentration on Zr-coated graphite tubes, 374 (1998) 231

Dissolved iron at subnanomolar levels in the Southern Ocean as determined by ship-board analysis, 377 (1998) 113 Selective and sensitive determination of trace manganese in sea water by flow through technique using luminol-hydrogen peroxide chemiluminescence detection, 377 (1998) 125

Determination of copper complexation in seawater using flow injection analysis with chemiluminescence detection, 377 (1998) 133

Shipboard determination of hydrogen peroxide in the western Mediterranean sea using flow injection with chemiluminescence detection, 377 (1998) 145

In situ determination of silicic acid in sea water based on FIA and colorimetric dual-wavelength measurements., 377 (1998) 157

In-line deoxygenation for flow analysis with voltammetric detection, 377 (1998) 229

Determination of cadmium in seawater using automated on-line preconcentration and direct injection graphite furnace atomic absorption spectrometry, 377 (1998) 255

Determination of bismuth, indium and lead in geological and seawater samples by electrothermal atomic absorption spectrometry with nickel-containing chemical modifiers, 382 (1999) 329

Immunosensor for trace determination of Irgarol 1051 in seawater using organic media, 387 (1999) 227

An environmental study by factor analysis of surface seawaters in the Gulf of Valencia (Western Mediterranean), 394 (1999) 109

Flow-through room temperature phosphorescence optosensing for the determination of lead in sea water, 395 (1999) 1

Stripping voltammetry for the determination of trace metal speciation and in-situ measurements of trace metal distributions in marine waters, 400 (1999) 381

### Seafood tissue extract

Determination of trimethylamine oxide in seawater and small volumes of seafood tissue extract using flow injection analysis, 334 (1996) 279

# Sealed bomb decomposition

Determination of trace elements in shellfish tissue samples by inductively coupled plasma mass spectrometry, 382 (1999) 215

### Search algorithm

Which IR search system is better for selection of unknown structure analogues?, 396 (1999) 99

# Seawater analysis

Use of 4-(2-pyridylazo)resocinol or 2-(2-pyridylazo)-5-dimethylaminophenol as chelating agent for determination of cadmium in seawater by atomic absorption spectrometry with on-line flowinjection sorbent extraction, 376 (1998) 305

### Seawater contamination

Preparation of antisera and development of a direct enzyme-linked immunosorbent assay for the determination of the antifouling agent Irgarol 1051, 347 (1997) 139

# Seawater pH

Automated pH-ISFET measurements under hydrostatic pressure for marine monitoring application, 356 (1997) 205

#### SEC

Investigation of metallodrug-protein interactions by size-exclusion chromatography coupled with inductively coupled plasma mass spectrometry (ICP-MS), 387 (1999) 135

#### SECM

Diffusional interaction between closely spaced dual microelectrodes, 397 (1999) 123

#### Secnidazol determination

Determination of secnidazol in pharmaceutical tablets and intestinal fluids by differential pulse polarography, 332 (1996) 161

### Second derivative spectroscopy

Determination of 3-chloro-N-chloro-N-(3,4-dimethyl-5-isoxazolyl)-4-amine-1,2-naphthoquinone in presence of its degradation products using second derivative spectrophotometry, 318 (1996) 221

### Second derivative synchronous fluorescence

Study of the interaction of Al(III) with a soil fulvic acid in the acid pH range by self-modeling mixture analysis of synchronous fluorescence spectral data, 349 (1997) 23

### Second harmonic generation

Determination of oxacyanine dyes and rhodamine by a second harmonic generation technique using a femtosecond laser, 330 (1996) 117

#### Second order calibration

Second order multivariate curve resolution applied to the flow injection analysis of mixtures of amino acids, 335 (1996) 41

# Second order derivative spectroscopy

Analysis of peptides from bovine hemoglobin and tuna myoglobin enzymatic hydrolysate: use of HPLC with on-line second-order derivative spectroscopy for the characterization of biologically active peptides, 352 (1997) 201

### Second order global analysis

Second order global analysis: the evaluation of series of spectrophotometric titrations for improved determination of equilibrium constants, 353 (1997) 381

# Secondary amines

Determination of secondary amines as highly fluorescent formamidines by high-performance liquid chromatography, 334 (1996) 45

# Second-order calibration

Calibration method choice by comparison of model basis functions to the theoretical instrumental response function, 348 (1997) 1

### Sediment characterisation

Practical improvements for redox potential (E<sub>H</sub>) measurements and the application of a multiple-electrode redox probe (MERP) for characterising sediment in situ, 367 (1998) 201

### Sediments

Supercritical fluid extraction of butyltin compounds from sediment, 304 (1995) 85

Proposal for a metal speciation study in sediments, 309 (1995) 387

- Determination of nitrobenzenes in river water, sediment and fish samples by gas chromatography-mass spectrometry, 312 (1995) 45
- Speciation of tin by reversed phase liquid chromatography with inductively coupled plasma mass spectrometric detection, 312 (1995) 141
- Evaluation of sample preparation methods for organotin speciation analysis in sediments - focus on monobutyltin extraction, 317 (1995) 161
- Improvement of extraction recovery for the monobutyltin species from sediment, 320 (1996) 165
- Gas chromatography-mass spectrometry determination of triclosans in water, sediment and fish samples via methylation with diazomethane. 325 (1996) 175
- Slurry sampling for the determination of lead, cadmium and thallium in soils and sediments by electrothermal atomic absorption spectrometry with fast-heating programs, 328 (1996) 19
- Acid-base properties of a river sediment: applicability of potentiometric titrations, 329 (1996) 33
- Microwave-accelerated speciation analysis for butylin compounds in sediments and biomaterials by large volume injection capillary gas chromatography quartz furnace atomic absorption spectrometry, 332 (1996) 225
- Microwave vacuum drying of marine sediment: determination of moisture content, metals and total carbon, 342 (1997) 247
- Efficiency of the microwave-assisted extraction of hydrocarbons and pesticides from sediments, 344 (1997) 241
- Supercritical fluid extraction combined on-line with cold-trap gas chromatography/mass spectrometry, 346 (1997) 81
- Spectrofluorimetric method for the determination of the total mercury content in sediment and soil, 355 (1997) 151
- Acid-base and copper(II) sorption properties of a natural lake sediment: Potentiometric and atomic absorption spectrometric characterisation, 358 (1998) 195
- Comparison of two sequential extraction procedures for metal fractionation in sediment samples, 359 (1998) 133
- Characterisation, validation and comparison of three methods for the extraction of phosphate from sediments, 376 (1998) 183
- Microwave-assisted pre-treatment of environmental samples for the determination of <sup>90</sup>Sr, 379 (1999) 135
- Use of a certified reference material for extractable trace metals to assess sources of uncertainty in the BCR three-stage sequential extraction procedure, 382 (1999) 317

### Selective detection

Polysiloxane based CHEMFETs for selective detection of Ca<sup>2+</sup> ions, 357 (1997) 225

### Selective determination

Selective determination of protolytes by flow injection analysis. A guide for the rational selection of reagent composition, 344 (1997) 271

### Selective extraction

Selective separation and determination of scandium from yttrium and lanthanides in red mud by a combined ion exchange/solvent extraction method, 315 (1995) 231

### Selective Hg(II) determination

An anthracene-substituted benzoylthiourea for the selective determination of Hg(II) in micellar media, 388 (1999) 19

#### Selective leaching

Recovery of lanthanides and yttrium from red mud by selective leaching, 319 (1996) 249

### Selective oxidation

Rapid and selective determination of peroxyacetic acid in disinfectants using flow injection analysis, 389 (1999) 233

### Selective separation

Selective separation and concentration of vanadium(V) by a chemical pumping hollow-fiber supported liquid membrane, 349 (1997) 171

### Selectivity

- Highly selective biosensing of lactate at lactate oxidase containing rhodium-dispersed carbon paste electrodes, 304 (1995) 41
- Remarkably selective metallized-carbon amperometric biosensors, 305 (1995) 3
- Diffusion restricting outer membranes for greatly extended linearity measurements with glucose oxidase enzyme electrodes, 333 (1996) 223
- Novel membrane material for ion-selective field-effect transistors with extended lifetime and improved selectivity, 335 (1996) 103
- Glucose detection at bare and sputtered platinum electrodes coated with polypyrrole and glucose oxidase, 335 (1996) 209
- Selectivity comparison of neutral carrier-based ion-selective optical and potentiometric sensing schemes, 350 (1997) 329
- Enhanced selectivity of MOSFET gas sensors by systematical analysis of transient parameters, 353 (1997) 291
- Detection and selectivity properties of Li\*-ion-selective electrodes based on NASICON-type ceramics, 354 (1997) 291
- Physicochemical understanding of the selectivity at an ion selective electrode of the liquid membrane type and relation between the selectivity and distribution ratios in the ion-pair extraction, 374 (1998) 269
- Notes on two competing definitions of multivariate sensitivity, 381 (1999) 103
- Potentiometric response of magnesium-selective membrane electrode in the presence of nonionic surfactants, 382 (1999) 265
- Improved stability and altered selectivity of tyrosinase based graphite electrodes for detection of phenolic compounds, 387 (1999)
- The SFSTP guide on the validation of chromatographic methods for drug bioanalysis: from the Washington Conference to the laboratory, 391 (1999) 135

### Selectivity coefficients

- Experimental procedures for the determination of amperometric selectivity coefficients, 303 (1995) 265
- Determination of potentiometric selectivity, 321 (1996) 1
- Prediction of the selectivity coefficients of a berberine selective electrode using artificial neural networks, 349 (1997) 283
- Comparison of different methods for determining the selectivity coefficient using a magnesium-selective electrode, 375 (1998)

# Selectivity control

Retention behaviour of the sulphoxide, sulphone and 2-aminosulphone metabolites of albendazole in ion-pair liquid chromatography, 354 (1997) 115

# Selectivity optimization

- Characterization and selectivity optimization on diol, amino, and cyano normal phase columns based on linear solvation energy relationships, 368 (1998) 141
- Application of linear solvation energy relationships to guide selection of polar modifiers in normal-phase liquid chromatographic separations, 395 (1999) 85

#### Selector valve

A compact titration configuration for process analytical applications, 378 (1999) 211

# Selenate photoreduction

Photoreduction-hydride generation: a new on-line system for the determination of selenate and selenite, 353 (1997) 91

### Seleniam speciation

Voltammetric study of the interaction between Se(IV) and dissolved organic matter in environmental aqueous matrices, 385 (1999) 337

#### Selenite

Determination of impurities in high-purity selenium by inductively coupled plasma mass spectrometry after acetate-form anionexchange separation, 333 (1996) 51

# Selenium

- Optimized arsenic, selenium and mercury determinations in aqueous solutions by energy dispersive x-ray fluorescence after preconcentration onto zirconium-loaded activated charcoal, 302 (1995) 89
- Determination of selenium and tellurium in nickel and nickel/ironbased alloys by graphite furnace atomic absorption spectrometry with a nickel/palladium matrix modifier, 304 (1995) 115
- Flow-injection anodic stripping voltammetry at a gold electrode for selenium(IV) determination, 308 (1995) 96
- Determination of trace amounts of selenium and tellurium in nickelbased heat-resisting superalloys, steels and several metals by electrothermal atomic absorption spectrometry after reductive coprecipitation with palladium using ascorbic acid, 312 (1995) 157
- On-line preconcentration of selenium(IV) and selenium(VI) in aqueous matrices followed by liquid chromatography-inductively coupled plasma mass spectrometry determination, 314 (1995) 183
- Determination of selenium speciation in river waters by adsorption on iron(III)-Chelex-100 resin and differential pulse cathodic stripping voltammetry, 321 (1996) 185
- Cathodic stripping potentiometric determination of selenium in biological and environmental materials on a combined electrode with a rotating sample platform, 338 (1997) 199
- Evaluation of selective uptake of selenium (Se(IV) and Se(VI)) and antimony (Sb(III) and Sb(V)) species by baker's yeast cells (Saccharomyces cerevisiae), 345 (1997) 249

- Low volume microwave digestion for the determination of selenium in marine biological tissues by graphite furnace atomic absorption spectroscopy, 350 (1997) 287
- Determination of selenium content in natural water by graphite furnace atomic absorption spectrometry after preconcentration with molybdate-form anion exchange resin, 351 (1997) 319
- Preconcentration and separation of inorganic selenium species on activated alumina, 363 (1998) 141
- Determination of arsenic, antimony, selenium, tellurium and bismuth in nickel metal by hydride generation atomic fluorescence spectrometry, 371 (1998) 109
- Simultaneous determination of arsenic(III,V), selenium(IV,VI), and antimony(III,V) in natural water by coprecipitation and neutron activation analysis, 395 (1999) 293
- Use of hydrofluoric acid to decrease the background signal caused by sodium chloride in electrothermal atomic absorption spectrometry, 396 (1999) 279
- Determination of trimethylselenonium ion by flow injection hydride generation atomic absorption spectrometry, 398 (1999)
- Biochemical speciation analysis by hyphenated techniques, 400 (1999) 321

### Selenium determination

- Voltammetric study of the interaction between Se(IV) and dissolved organic matter in environmental aqueous matrices, 385 (1999) 337
- Study and comparison of several chemical modifiers for selenium determination in human serum by Zeeman electrothermal atomic absorption spectrometry, 398 (1999) 279

### Selenium speciation

- Determination of selenium compounds in urine samples by liquid chromatography-inductively coupled plasma mass spectrometry with an ultrasonic nebulizer, 307 (1995) 109
- Determination of five selenium compounds in urine by liquid chromatography with focused microwave assisted digestion and hydride generation-atomic absorption spectrometric detection, 374 (1998) 241
- Selenium speciation with on-column preconcentration high-performance liquid chromatography atomic fluorescence spectrometry using ultrasonic nebulization technique, 386 (1999) 89

### Selenium(IV) analysis

Sensitivity enhancement of the methylene blue catalytic-spectrophotometric method of selenium(IV) determination by CTAB, 335 (1996) 155

# Selenium-DAN complex

Enhancement of the fluorescence intensity of Se-2,3-diaminonaphthalene complex in aqueous solution by adding organic solvents, 334 (1996) 161

### Selenocyanato complexes

Thin layer chromatographic and electrophoretic study of mixed chloro-thiocyanato and chloro-selenocyanato complexes of platinum(IV), 391 (1999) 315

### Self-absorption

Selection of self-absorption free analytical lines of aluminum in glow discharge optical emission spectrometry, 343 (1997) 267

### self-assembled

Surface-confined monomers on electrode surfaces Part 3. Electrochemical reactions and scanning probe microscopy investigations of  $\omega$ -(N-pyrrolyl) alkanethiol self-assembled monolayers on gold, 307 (1995) 269

Surface-enhanced Raman scattering from functionalized selfassembled monolayers Part 1. Distance dependence of enhanced Raman scattering from a terminal phenyl group, 307 (1995) 333

### Self-assembled bilayer lipid membranes

Cyanide ion minisensor based on methemoglobin incorporated in metal supported self-assembled bilayer lipid membranes and modified with platelet-activating factor, 355 (1997) 227

### Self-assembled monolayers

Factors that influence the stability of self-assembled organothiols on gold under electrochemical conditions, 307 (1995) 253

Voltammetric responsive sensors for organic compounds based on organized self-assembled lipoyl-β-cyclodextrin derivative monolayer on a gold electrode, 337 (1997) 217

Flow injection immunosensing of polycyclic aromatic hydrocarbons with a quartz crystal microbalance, 387 (1999) 29

Hydrogen peroxide sensor based on horseradish peroxidase-labeled Au colloids immobilized on gold electrode surface by cysteamine monolayer, 391 (1999) 73

Chemically diverse modified electrodes: A new approach to the design and implementation of sensor arrays, 397 (1999) 135

Capture agents for a quartz crystal microbalance-continuous flow biosensor: functionalized self-assembled monolayers on gold, 399 (1999) 51

### Self-assembly

Optimization of capacitive affinity sensors: drift suppression and signal amplification, 392 (1999) 77

### Self-organizing map

Pattern recognition approach to the study of the interactions between metalloporphyrin Langmuir—Blodgett films and volatile organic compounds, 384 (1999) 249

### Semiconductor sensors

Semiconductor sensors for the detection of fluorocarbons, fluorine and hydrogen fluoride, 393 (1999) 49

# Semiconductor substrates

Membranes containing new large size calixarenes on semiconductor substrates for chemical microsensors, 354 (1997) 283

### Semiconductors

Development of biosensors based on an electrolyte isolator semiconductor (EIS)-capacitor structure and their application for process monitoring Part I. Development of the biosensors and their characterization, 317 (1995) 259 Gas sensing based on the dynamic nonlinear responses of a semiconductor gas sensor: dependence on the range and frequency of a cyclic temperature change, 361 (1998) 93

### Semiempirical

Simulation of infrared spectra using artificial neural networks based on semiempirical and empirical data, 331 (1996) 63

### Semi-empirical MO calculation

Study on the vaporisation of sulphur-containing amino acids in a hydrogen flame by use of molecular emission cavity analysis and liquid chromatography, 309 (1995) 163

#### Semimetal

Selective adsorbents for germanium(IV) derived from chitosan, 343 (1997) 275

Selective separation of germanium(IV) by 2,3-dihydroxypropyl chitosan resin, 371 (1998) 187

### Semi-quantitative analysis

Semi-quantitative panoramic analysis of industrial samples by inductively coupled plasma mass spectrometry, 355 (1997) 105

### Sensing tape for Hydrogen cyanide gas

An automatic measurement of hydrogen cyanide in air by a monitoring tape method, 398 (1999) 305

### Sensitive tape for nitrogen dioxide gas

Development of a monitoring tape for nitrogen dioxide in air, 321 (1996) 41

### Sensitivity

Enhancement of ELISA sensitivity for the detection of rabbit anti-HIV antibodies using APAAP complex, 319 (1996) 265

A new mercury drop electrode for trace metal analysis, 339 (1997) 147

Notes on two competing definitions of multivariate sensitivity, 381 (1999) 103

### Sensitivity enhancement

Sensitivity enhancement of fluorescent pH indicators using pHdependent energy transfer, 313 (1995) 131

### Sensitivity filter

Reduction of the relative standard deviation in the least-squares fitting of linearized equations by using sensitivity weights, 316 (1995) 173

### Sensitivity weights

Reduction of the relative standard deviation in the least-squares fitting of linearized equations by using sensitivity weights, 316 (1995) 173

### Sensitization

Development and characterization of anodically initiated luminescent detection for alcohols and carbohydrates, 337 (1997) 207

### Sensitized luminescence

Sensitized luminescence induced by nickel electrocatalysis to detect aliphatic hydroxy compounds, 362 (1998) 141

#### Sensor arrays

- Selection of variables for interpreting multivariate gas sensor data, 381 (1999) 221
- Chemically diverse modified electrodes: A new approach to the design and implementation of sensor arrays, 397 (1999) 135

#### Sensors

- Chemically amplified xanthine and hypoxanthine sensors based on substrate recycling between the enzyme-substrate complex and substrate, 302 (1995) 21
- New hydrophobic materials for optical carbon dioxide sensors based on ion pairing, 302 (1995) 249
- Development of humidity correction algorithm for surface acoustic wave sensors Part 2. Mathematical model for water and nitrobenzene co-adsorption on aminopropyltriethoxysilane coated surface acoustic wave sensors, 302 (1995) 255
- Chemiluminometric enzyme sensors for flow-injection analysis, 303 (1995) 109
- Dependence of the fluorescence of immobilized 1-hydroxypyrene-3,6,8-trisulfonate on solution pH: extension of the range of applicability of a pH fluorosensor, 304 (1995) 165
- A flow-injection type chemiluminescence-based sensor for cyanide, 304 (1995) 369
- Reactivities of amperometric organic phase peroxidase-modified electrodes in the presence and absence of thiourea and ethylenethiourea as inhibitors, 305 (1995) 57
- Sensors and sample preparation in stripping voltammetry, 305 (1995) 146
- Nickel oxide dispersed in a graphite / poly(vinyl chloride) composite matrix for an electrocatalytic amperometric sensor of alditols in flow-injection analysis, 307 (1995) 43
- Spectrophotometric flow-through gas sensor for the determination of atmospheric nitrogen dioxide, 308 (1995) 109
- Lipophilicity of tetraphenylborate derivatives as anionic sites in neutral carrier-based solvent polymeric membranes and lifetime of corresponding ion-selective electrochemical and optical sensors, 309 (1995) 7
- Investigation of the response of dye-nonaqueous solvent solutions to carbon dioxide, 309 (1995) 27
- Electrochemical response to H<sub>2</sub>, O<sub>2</sub>, CO<sub>2</sub> and NH<sub>3</sub> of a solid-state cell based on a cation- or anion-exchange membrane serving as a solid polymer electrolyte, 310 (1995) 139
- Tuning of glucose oxidase modified alkylacrylate polymers employed in amperometric sensor systems, 310 (1995) 199
- Novel response mechanism and application of sulfite sensitive polymeric membrane electrode based on dithiocarbamate complexes of mercury(II), 310 (1995) 211
- Remote stripping electrode for in situ monitoring of labile copper in the marine environment, 310 (1995) 223
- Studies with solid-state phosphorescent coatings on their sensitivity to nitrogen oxides, 310 (1995) 233
- Spectrophotometric determination of total phenolics by solvent extraction and sorbent extraction optosensing using flow injection methodology, 310 (1995) 437
- Platinum/glassy carbon electrode as detector for liquid chromatographic determination of hydroxyl-containing compounds, 311 (1995) 37

- Pharmaceutical applications of a flurbiprofen sensor, 311 (1995) 193
- Detection of mixtures of organic pollutants in water by polymer film receptors in fibre-optical sensors based on reflectometric interference spectrometry, 312 (1995) 1
- Ammonia selective bulk acoustic wave sensor based on neutral ionophores, 312 (1995) 9
- Evaluation of methods to minimize effects of liquid viscosity and density on the oscillating frequencies of thickness-shear-mode (TSM) piezoelectric resonators, 312 (1995) 217
- Sensitive measurement of ozone using amperometric gas sensors, 313 (1995) 209
- Electroanalytical and surface characterization of encapsulated implantable membrane planar microsensors, 314 (1995) 1
- Measuring the water content of synthetic lubricants with polymercoated sensors, 315 (1995) 15
- Pulsed electrochemical detection of proteins using conducting polymer based sensors, 315 (1995) 27
- Analytical characterisation and application of a p-benzoquinone mediated amperometric graphite sensor with covalently linked glucoseoxidase, 315 (1995) 101
- Regenerated silk fibroin membrane as immobilization matrix for peroxidase and fabrication of a sensor for hydrogen peroxide utilizing methylene blue as electron shuttle, 316 (1995) 65
- Optical sensing of anions via polarity-sensitive dyes: a bulk sensor membrane for nitrate, 316 (1995) 239
- General model for the steady-state response properties of fiber-optic ammonia gas sensors, 317 (1995) 265
- Toward development of a humidity correction algorithm for surface acoustic wave sensors Part 3. Water, nitrobenzene and 2-nitrotoluene adsorption on platinum/lead coated piezoelectric sensors, 317 (1995) 281
- Remote electrochemical monitoring of trace silver, 318 (1996) 151
  A reusable optical sensing layer for picric acid based on the luminescence quenching of the Eu-thenoyltrifluoroacetone complex, 318 (1996) 175
- Peroxidase-incorporated hydrophilic polythiophene electrode for the determination of hydrogen peroxide in acetonitrile, 318 (1996) 297
- Oxidative detection of nitrite at an electrocatalytic [Ru(bipy)<sub>2</sub>poly-(4-vinylpyridine)<sub>10</sub>Cl]Cl electrochemical sensor applied for the flow injection determination of nitrate using a Cu/Cd reductor column, 319 (1996) 111
- Fibre optic chemical sensor based on surface plasmon monochromatic excitation, 319 (1996) 121
- Nafion-based optode for the detection of metal ions in flow analysis, 319 (1996) 127
- Study of the performance of an optochemical sensor for ammonia, 320 (1996) 235
- Theory of the surface acoustic wave/impedance sensor system and its application to the end-point determination in titrimetry, 320 (1996) 245
- Amperometric sensor for Propanil, 320 (1996) 263
- Metalloporphyrin-based polymer membrane electrode with high selectivity for 2-hydroxybenzhydroxamate, 321 (1996) 11
- Development of a monitoring tape for nitrogen dioxide in air, 321 (1996) 41

- Potentiometric membrane sensors for the selective determination of cinnarizine in pharmaceutical preparations, 321 (1996) 47
- Portable battery-powered flow injection analyser for volatile alcohols using semiconductor gas sensors, 321 (1996) 61
- Enhancing EMF stability of solid-state ion-selective sensors by incorporating lipophilic silver-ligand complexes within polymeric films, 321 (1996) 173
- Towards a microelectrode sensor for the determination of oxygen in waters, 322 (1996) 83
- Conducting polymer-based ion-selective electrodes, 322 (1996) 141
  On line coupling of a liquid-liquid extraction flow-reversal system to a spectrophotometric flow-through sensor for the determination of polyphenols in olive oil, 323 (1996) 55
- The application of metalloporphyrins as coating material for quartz microbalance-based chemical sensors, 325 (1996) 53
- A novel bulk acoustic wave sensor for dissolved ammonia, 325 (1996) 65
- An optosensor based on the fluorescence of metal complexes adsorbed on Chelex 100, 325 (1996) 201
- Model of quartz crystal microbe growth sensor and its application to estimation of microbial populations in mineral waters, 329 (1996) 83
- An amperometric Meldola Blue-mediated sensor high sensitive to hydrogen peroxide based on immobilization of horseradish peroxidase in a composite membrane of regenerated silk fibroin and poly(vinyl alcohol), 329 (1996) 97
- Determination of pH using a polyaniline-coated piezoelectric crystal, 329 (1996) 105
- Extending the response range of an optical fibre pH sensor using an artificial neural network, 330 (1996) 31
- Shift and drift of electromotive forces of solid-state electrodes with ion-selective liquid membranes, 331 (1996) 85
- Immunological activities of IgG antibody on pre-coated Fc receptor surfaces, 331 (1996) 97
- Continuous in-vivo monitoring of metronidazole in cerebrospinal fluid by a on-line flow-cell fiber-optic chemical sensor system, 331 (1996) 103
- Ionization chamber as a gas sensor: organophosphorus compound detection, 331 (1996) 233
- Piezoelectric quartz crystal humidity sensor using chemically modified nitrated polystyrene as water sorbing coating, 332 (1996)
- Calibration of an array of voltammetric microelectrodes, 334 (1996)
- Ammonia fluorosensors based on reversible lactonization of polymer-entrapped rhodamine dyes, and the effects of plasticizers, 334 (1996) 113
- Fluorescent potential-sensitive dyes for use in solid state sensors for potassium ion, 334 (1996) 125
- Optical sensing of pH based on polypyrrole films, 334 (1996) 149
- The potentiometric response of chemically modified electrodes, 334 (1996) 317
- Mimicking the olfactory system by a thickness-shear-mode acoustic sensor array, 335 (1996) 117
- Dipicrylamine-modified triacetylcellulose membrane for optical pH and potassium ion measurement, 335 (1996) 227

- Electrochemical response of a polypyrrole-dodecylsulphate electrode with multicharged cations and vitamins B<sub>1</sub> and B<sub>6</sub>. Application as a microsensor in flow-injection analysis, 336 (1996)
- New polar plasticizers for luminescence-based sensors, 337 (1997) 201
- Voltammetric responsive sensors for organic compounds based on organized self-assembled lipoyl-β-cyclodextrin derivative monolayer on a gold electrode, 337 (1997) 217
- Chemical vapour sensing by surface plasmon resonance optical fibre sensor coated with fluoropolymer, 337 (1997) 225
- Orthophosphate ion-sensors based on a quartz-crystal microbalance coated with insoluble orthophosphate salts, 338 (1997) 77
- Selective optical response to oxygen of membranes based on immobilized cobalt(II) porphyrins, 338 (1997) 119
- An optosensor for riboflavin with  $C_{18}$  silica gel as a substrate, 339 (1997) 161
- Development of a chemical vapor sensor using piezoelectric quartz crystals with coated unusual lipids, 340 (1997) 41
- Detection of lipopolysaccharide binding peptides by the use of a lipopolysaccharide-coated piezoelectric crystal biosensor, 340 (1997) 49
- Oscillation condition for a series piezoelectric sensor. Application to the determination of urease activity in plant seeds, 340 (1997) 55
- Simultaneous monitoring of pH, CO<sub>2</sub> and O<sub>2</sub> using an optical imaging fiber, 340 (1997) 123
- Enzyme modified amperometric sensors for choline and acetylcholine with tetrathiafulvalene tetracyanoquinodimethane as the electron-transfer mediator, 341 (1997) 43
- Detection of volatile organic compounds in the vapor phase using solvatochromic dye-doped polymers, 341 (1997) 53
- Detection of haloacetic acids at conductive electroactive polymermodified microelectrodes, 341 (1997) 141
- Potentiometric oxygen sensor based on mixed potential of cobalt wire electrode, 341 (1997) 187
- Adhesion of human platelets to collagen detected by <sup>51</sup>Cr labelling and acoustic wave sensor, 342 (1997) 23
- Ion-sensitive and selective active waveguide optodes, 342 (1997) 31 Porphyrin-doped sol-gel glass as a probe for oxygen sensing, 342 (1997) 181
- A disposable amperometric gas sensor for sulphur-containing compounds based on a chemically modified screen printed carbon electrode coated with a hydrogel, 342 (1997) 199
- Fluorosensors for ammonia using rhodamines immobilized in plasticized poly(vinyl chloride) and in sol-gel; a comparative study, 342 (1997) 207
- Flow injection-assisted optical sensor for determination of iron(II) and iron(III) in natural water, 343 (1997) 191
- Active optical thin-film waveguide sensor for ion sensing, 343 (1997) 199
- Toward development of a humidity correction algorithm for surface acoustic wave sensors Part 4. The effect of coating mass, relative humidity and temperature on the isosteric heat of adsorption of benzene, toluene, 2-nitrotoluene and 2,4-dinitrotoluene onto platinum/lead-coated piezoelectric crystals, 343 (1997) 215
- Development of sulphide-selective optode membranes based on fluorescence quenching, 344 (1997) 105

Utilization of an osmium complex as a sequence recognizing material for DNA-immobilized electrochemical sensor, 345 (1997) 45

Fluorescent sensor based on newly synthesized fluorescein octadecyl ether octadecyl ester (FODEE) for direct determination of phenols in aqueous solutions, 351 (1997) 197

Planar waveguide ion-selective sensors, 353 (1997) 1

A fiber optic sensor for rapid analysis of bilirubin in serum, 353 (1997) 263

Porphyrins as carrier in PVC based membrane potentiometric sensors for nickel(II), 355 (1997) 33

Fabrication of oxygen electrode arrays and their incorporation into sensors for measuring biochemical oxygen demand, 357 (1997) 41

Highly-dispersed copper microparticles on the active gold substrate as an amperometric sensor for glucose, 357 (1997) 63

Flow-through fiber-optic ammonia sensor for analysis of hippocampus slice perfusates, 357 (1997) 79

PVC-matrix membrane ion-selective sensors for gold determination in cyanide solutions, 357 (1997) 231

A simple, highly stable scintillator light source for ultraviolet absorption-based sensors, 367 (1998) 153

A low power ultra violet spectrophotometer for measurement of nitrate in seawater: introduction, calibration and initial sea trials, 377 (1998) 167

Molybdate sensor based on 5,10,15,20-tetraphenylporphyrinatocobalt complex in a PVC matrix, 379 (1999) 201

Measurement and control of hydrogen peroxide concentration in alkaline solution by means of amperometric sensor system, 385 (1999) 423

Chemical oxygen demand sensor employing a thin layer electrochemical cell, 386 (1999) 211

Hydrogen sulfite optical sensor based on a lipophilic guanidinium ionophore, 388 (1999) 63

Sensitivity control of ion-selective biosensors by electrophoretically mediated analyte transport, 391 (1999) 57

Hydrogen peroxide sensor based on horseradish peroxidase-labeled Au colloids immobilized on gold electrode surface by cysteamine monolayer, 391 (1999) 73

Selective recognition of atrazine by molecularly imprinted polymer membranes. Development of conductometric sensor for herbicides detection, 392 (1999) 105

Multicomponent gas analysis of a mixture of chloroform, octane and toluene using a piezoelectric quartz crystal sensor array, 393 (1999) 67

# Sensory test

Sedative effect on humans of inhalation of essential oil of linalool: . Sensory evaluation and physiological measurements using optically active linalools, 365 (1998) 293

### Separation

Determination of zinc in biological materials by sequential metal vapor elution analysis with atomic absorption detection, 329 (1996) 191

New separation method for chromium(VI) in water by collection of its ternary complex on an organic solvent-soluble membrane filter, 332 (1996) 307 An on-line solid phase extraction system using polyurethane foam for the spectrophotometric determination of nickel in silicates and alloys, 378 (1999) 287

Adsorptive separation of some metal ions by complexing agent types of chemically modified chitosan, 388 (1999) 209

Trends of flow injection sample pretreatment approaching the new millennium, 400 (1999) 233

### Separation and estimation

Separation and estimation of diloxanide furoate and metronidazole in solid dosage form using packed column supercritical fluid chromatography, 354 (1997) 123

### Separation and preconcentration

Separation and preconcentration of uranium from geological materials with chelating resin containing 4-(2-thiazolylazo)resorcinol functional groups, 382 (1999) 199

### Separation factors

Extraction of alkali metal, magnesium and calcium ions with cyclopentadienyltris(diethylphosphito-P) cobaltate(-1), 319 (1996) 271

### Separation potential

Effects of separation potential, hydrostatic pressure and auxiliary electroosmotic pumping on a suppressed conductometric capillary electrophoresis separation system, 394 (1999) 1

# Separation process

Direct observation of sample trapping process onto internal-surface reversed-phase pre-column, 365 (1998) 115

### Separation science

Perturbation of a solid phase separation process by a non-thermal microwave effect, 387 (1999) 113

### Separation techniques

Miniaturisation: a well-defined trend in separation and preconcentration techniques, 351 (1997) 23

### Sephadex CMC-25

A selective optosensor for UV spectrophotometric determination of thiamine in the presence of other vitamins B, 376 (1998) 227

# Sephadex QAE

Application of Doehlert optimization and factorial designs in developing and validating a solid-phase spectrophotometric determination of trace levels of cadmium, 382 (1999) 117

Complexes of Zn(II) and Cd(II) with 4-(2-pyridylazo)resorcinol sorbed on sephadex QAE: characterization and theoretical study, 389 (1999) 281

### Sephadex QAE A-25

Sensitive and selective determination of diclofenac sodium in pharmaceutical preparations by solid phase ultraviolet absorptiometry, 369 (1998) 263

### SEP-PAK C18 column

Synergetic adsorption of copper(II) mixed ligand complexes onto the SEP-PAK C<sub>18</sub> column, 339 (1997) 181

# Sequence-specific detection

Stripping potentiometric transduction of DNA hybridization processes, 326 (1996) 141

Sequence-specific electrochemical biosensing of M. tuberculosis DNA, 337 (1997) 41

Detection of point mutation in the p53 gene using a peptide nucleic acid biosensor, 344 (1997) 111

# Sequence-specific DNA detection

Detection of higher-ordered DNA sequence by using terbium(III) luminescence, 365 (1998) 27

### Sequential analysis

Flow injection chemiluminescence determination of ornithine and sequential determination of ornithine and lysine by using immobilized lysine oxidase, 388 (1999) 339

### Sequential analysis of D/L-amino acids

Discrimination of D/L-amino acid in peptide sequence based on fluorescent chiral derivatization by reversed-phase liquid chromatography, 352 (1997) 357

### Sequential determination

Sequential determinations by confluent reagent introduction in the sample loop: system characteristics and applications, 366 (1998) 281

# Sequential extraction

Assessment of the extent of lead redistribution during sequential extraction by two different methods, 332 (1996) 1

Reproducibility testing of a sequential extraction scheme for the determination of trace metal speciation in a marine reference sediment by inductively coupled plasma-mass spectrometry, 342 (1997) 91

Inhibition of Pb redistribution by two complexing agents (cryptand and NTA) during a sequential extraction of soil models, 347 (1997) 313

Comparison of two sequential extraction procedures for metal fractionation in sediment samples, 359 (1998) 133

Speeding up of a three-stage sequential extraction method for metal speciation using focused ultrasound, 360 (1998) 35

A critical evaluation of the three-stage BCR sequential extraction procedure to assess the potential mobility and toxicity of heavy metals in industrially-contaminated land, 363 (1998) 45

Characterisation, validation and comparison of three methods for the extraction of phosphate from sediments, 376 (1998) 183

Application of microwave extraction for partitioning of heavy metals in sewage sludge, 378 (1999) 201

Use of a certified reference material for extractable trace metals to assess sources of uncertainty in the BCR three-stage sequential extraction procedure, 382 (1999) 317

Metal readsorption and redistribution during the analytical fractionation of trace elements in oxic estuarine sediments, 399 (1999) 295

### Sequential flow injection

On-line automated analytical signal diagnosis in sequential injection analysis systems using artificial neural networks, 348 (1997) 113 Enzymatic determination of L(+) lactic and L(-) malic acids in wines by flow-injection spectrophotometry, 366 (1998) 187

#### Sequential injection

Determination of sulphate in natural waters and industrial effluents by sequential injection analysis, 331 (1996) 271

Sequential-injection extraction for sample preparation, 337 (1997) 99

Modeling and optimization studies for a sequential flow based bioanalytical system, 359 (1998) 157

Sampling strategies in sequential injection analysis: Exploiting the monosegmented-flow approach, 366 (1998) 257

Sequential injection sandwich technique for the simultaneous determination of nitrate and nitrite, 371 (1998) 63

Sequential injection sample introduction microfluidic-chip based capillary electrophoresis system, 390 (1999) 27

Trends of flow injection sample pretreatment approaching the new millennium, 400 (1999) 233

# Sequential injection analysis

A new instrumental implementation of sequential injection analysis, 302 (1995) 297

Spectrophotometric determination of calcium in paper machine white water by sequential injection analysis, 308 (1995) 286

Simultaneous monitoring of glucose, lactic acid and penicillin by sequential injection analysis, 312 (1995) 149

Development of an extremely flexible automatic analyzer with integrated biosensors for on-line control of fermentation processes, 315 (1995) 113

Sequential injection analysis of nitrites and nitrates, 315 (1995) 321

Gas diffusion techniques coupled sequential injection analysis for selective determination of ammonium, 318 (1996) 251

On-line monitoring of glucose and penicillin by sequential injection analysis, 320 (1996) 199

Determination of calcium in water, urine and pharmaceutical samples by sequential injection analysis, 323 (1996) 75

Sequential injection determination of p-glucose by chemiluminescence using an open tubular immobilised enzyme reactor, 326 (1996) 1

Determination of ammonia in water and industrial effluent streams with the indophenol blue method using sequential injection analysis, 344 (1997) 281

Evaluation of spectrophotometric methods for determination of orthophosphates by sequential injection analysis, 350 (1997) 21

Influence of different volume ratios on the isodispersion point in sequential injection analysis, 354 (1997) 59

Sequential injection analysis system for determination of mercury by cold-vapor atomic absorption spectroscopy, 355 (1997) 203

Determination of iron(III) in pharmaceutical samples using dialysis in a sequential injection analysis system, 357 (1997) 141

Sequential-injection system for drug-dissolution studies of ibuprofen tablets and sustained-release formulations, 358 (1998) 103

Simultaneous determination of cobalt(II) and Ni(II) in water and soil samples with sequential injection analysis, 366 (1998) 177

Development of a potentiometric procedure for determination of glycerol and 2,3-butanediol in wine by sequential injection analysis, 366 (1998) 193

- Use of a sequential injection technique to evaluate the effect of mixing chambers on zone penetration, 367 (1998) 111
- Sequential-injection spectrophotometric determination of amino acids using 2,4,6-trinitrobenzenesulphonic acid, 369 (1998) 163
- Sample preparation in sequential injection analysis. Spectrophotometric determination of total phosphorus in food samples, 371 (1998) 57
- Simultaneous determination of enzyme activities by FTIR-spectroscopy in an one-step assay, 391 (1999) 19
- Environmentally friendly analytical chemistry through automation: comparative study of strategies for carbaryl determination with p-aminophenol, 392 (1999) 265
- Simultaneous monitoring of aspirin, phenacetin and caffeine in compound aspirin tablets using a sequential injection drug-dissolution testing system with partial least squares calibration, 392 (1999) 273

### Sequential metal vapor elution analysis

Determination of zinc in biological materials by sequential metal vapor elution analysis with atomic absorption detection, 329 (1996) 191

# Sequential multicomponent analysis

Selective flow injection procedures for the determination of nitrogen containing analytes by gasdialytic-fluorimetric detection of enzymatically generated ammonia, 325 (1996) 93

### Sequential optimization

Sequential response surface methodology for multioptimization in analytical chemistry with three-variable Doehlert designs, 348 (1997) 237

### Sequential-injection immunoassay

Flow-injection- and sequential-injection immunoassay for triiodothyronine using acridinium ester chemiluminescence detection, 398 (1999) 183

# Sequestering agent

New organosilicon polymer for the extraction and luminescence analysis of uranyl in environmental samples, 396 (1999) 263

### Serial filter method

Serial filter method for fluorescence evaluation, 380 (1999) 417

# Series and parallel frequencies

Response of a thickness-shear mode quartz crystal resonator upon hydrogel formation, 351 (1997) 177

### Series dual-electrode amperometric detection

Detection of menadione sodium bisulfite (vitamin K<sub>3</sub>) by reversedphase high performance liquid chromatography with series dualelectrode amperometric detector, 338 (1997) 57

# Serotonin

- Determination of 5-hydroxytryptamine (serotonin) and related indoles by flow injection analysis with acidic potassium permanganate chemiluminescence detection, 362 (1998) 131
- Serotonin monitoring in microdialysate from rat brain by microboreliquid chromatography with fluorescence detection, 365 (1998) 227

Voltammetric determination of serotonin in haman blood using a chemically modified electrode, 369 (1998) 103

#### SERS

Detection of atmospheric contaminants in aerosols by surfaceenhanced Raman spectrometry, 355 (1997) 15

#### Serum

- Stopped flow kinetic determination of nalidixic acid and norfloxacin based on lanthanide-sensitized fluorescence, 303 (1995)
- An amperometric-enzymatic method for assays of inorganic phosphate and adenosine deaminase in serum based on the measurement of uric acid with a dialysis membrane-covered carbon electrode, 303 (1995) 301
- Inductively coupled plasma mass spectrometric determination of gold in serum: comparison with flame and furnace atomic absorption spectrometry, 304 (1995) 317
- Determination of chromium and nickel in human blood by means of inductively coupled plasma mass spectrometry, 306 (1995) 35
- Determination of free N-acetyl neuraminic acid by ultrafiltration and liquid chromatography in the serum of normal and cancer patients, 306 (1995) 65
- Fluorimetric-flow injection determination of theophylline based on its inhibitory effect on immobilized alkaline phosphatase, 308 (1995) 159
- Spectrofluorimetric flow-injection determination of potassium in serum based on enzyme activation, 308 (1995) 178
- Ion-selective electrode for procainamide determination in blood serum, 312 (1995) 35
- Direct and simultaneous determination of uric acid and glucose in serum with electrochemical filter/biosensor flow-injection analysis system, 315 (1995) 137
- Arsenic speciation in serum of uraemic patients based on liquid chromatography with hydride generation atomic absorption spectrometry and on-line UV photo-oxidation digestion, 319 (1996) 177
- Synchronous scanning second derivative spectrofluorimetry for the simultaneous determination of diffunisal and salicylic acid added to serum and urine as ternary complexes with terbium and EDTA, 320 (1996) 107
- Determination of trace elements in human serum by inductively coupled plasma atomic emission spectrometry with flow injection, 320 (1996) 185
- Fabrication and application of a diamond-film glucose biosensor based on a H<sub>2</sub>O<sub>2</sub> microarray electrode, 327 (1996) 133
- An improved spectrophotometric method for the determination of free, bound and total N-acetylneuraminic acid in biological fluids, 327 (1996) 277
- Rapid determination of lithium in human serum and urine, at physiological concentrations, by inductively coupled argon plasma atomic emission spectrometry, 327 (1996) 301
- Kinetic determination of salicylic acid, diflunisal and their mixture based on lanthanide-sensitized luminescence, 329 (1996) 135
- Flow injection method for determination of uranium in urine and serum by inductively coupled plasma mass spectrometry, 334 (1996) 295

- A reversed-phase high performance liquid chromatography method using solid phase extraction to quantitate thalidomide in human serum, 339 (1997) 91
- Simple spectrophotometric determination of tinidazole in formulation and serum, 340 (1997) 241
- Determination of bovine serum albumin by capillary zone electrophoresis with end-column amperometric detection at the carbon fiber microdisk array electrode, 342 (1997) 67
- Assessment of the content of selected trace elements in serum of term and pre-term newborns by inductively coupled plasma mass spectrometry, 342 (1997) 75
- Determination of free disopyramide in blood serum in situ using a disopyramide-sensitive membrane electrode, 343 (1997) 79
- Simultaneous spectrophotometric determination of chlorpromazine, perphenazine and acetopromazine by use of the kinetic wavelength pair-method, 349 (1997) 33
- Evaluation of ticlopidine in human serum and plaque by liquid chromatography/atmospheric pressure chemical ionization mass spectrometry, 354 (1997) 87
- The study of magnesium speciation in serum by liquid chromatography and graphite furnace atomic absorption techniques, 358 (1998) 185
- Potentiometric enzyme electrode in a flow injection system for the determination of urea in human serum samples, 369 (1998) 129
- First-derivative non-linear variable-angle synchronous fluorescence spectroscopy for the simultaneous determination of salicylamide, salsalate and naproxen in serum and urine, 373 (1998) 119
- Rapid determination of lead and cadmium in biological fluids by electrothermal atomic absorption spectrometry using Zeeman correction, 390 (1999) 207
- Fluorimetric method for the determination of thiocyanate with 2',7'dichlorofluorescein and iodine, 394 (1999) 171

### Serum albumin

- Spectral study of interaction of thymol blue with protein in acidic solution, 341 (1997) 97
- Resonance light scattering study of aggregation of two water soluble porphyrins due to their interaction with bovine serum albumin, 343 (1997) 281
- Fine separation of protein isoforms with alternative development in two-dimensional electrophoresis, 365 (1998) 267
- Enantiomeric separation of promethazine and D,L-α-amino-β-[4-(1,2-dihydro-2-oxo-quinoline)] propionic acid drugs by capillary zone electrophoresis using albumin as chiral selectors, 392 (1999) 175

# Serum analysis

Potentiometric behavior of metalloporphyrin-based ion-selective electrodes: Use of silicone rubber matrix for serum chloride analysis, 367 (1998) 175

# Serum and urine

Simultaneous determination of serum and urinary hydroxyproline and proline by liquid chromatography using two fluorescent labeling reagents, 365 (1998) 219

# Serum assay

Microfabricated amperometric creatine and creatinine biosensors, 319 (1996) 335

# Serum enzyme assay

Determination of cholinesterase in blood serum using a benzoateselective membrane electrode made with heptyl-4-trifluoroacetylbenzoate neutral carrier, 321 (1996) 21

# Serum pool

Study and comparison of several chemical modifiers for selenium determination in human serum by Zeeman electrothermal atomic absorption spectrometry, 398 (1999) 279

### Serum proteins

- Study of the catalytic polarographic reduction of Ni(II) in the presence of albumin, immunoglobulins and serum proteins Determination of total proteins in serum, 317 (1995) 319
- Blood group typing by electrophoresis based on isoelectric focusing, 383 (1999) 157

#### Serum samples

Use of a low power, high frequency stabilized capacitive plasma combined with graphite furnace vaporization for the atomic emission spectrometric analysis of serum samples, 332 (1996) 193

### Severinghaus type electrode

Numerical approach to the explanation of the response time of the Severinghaus type electrode, 316 (1995) 83

#### Sewage sludge

- Speeding up of a three-stage sequential extraction method for metal speciation using focused ultrasound, 360 (1998) 35
- Application of microwave extraction for partitioning of heavy metals in sewage sludge, 378 (1999) 201

# Sewage treatment

Multivariate data analysis of key pollutants in sewage samples: a case study, 393 (1999) 181

### SFE

- Effect of parameters on supercritical fluid extraction of nitro-polynuclear aromatic hydrocarbons from sand, 349 (1997) 245
- Development of a novel supercritical fluid extraction procedure for lanolin extraction from raw wool, 381 (1999) 39

# SFE/cold trap-GC/MS

Supercritical fluid extraction combined on-line with cold-trap gas chromatography/mass spectrometry, 346 (1997) 81

### SFE-GC/MS

Evaluation of analytical methods for determining pesticides in baby food, 399 (1999) 135

# Sheath flow inlet

Extending the concentration and linear dynamic range of ion mobility spectrometry with a sheath flow inlet, 381 (1999) 69

# Shipboard flow injection

Shipboard determination of hydrogen peroxide in the western Mediterranean sea using flow injection with chemiluminescence detection, 371 (1998) 205 Shipboard determination of hydrogen peroxide in the western Mediterranean sea using flow injection with chemiluminescence detection, 377 (1998) 145

### Shpol'skii luminescence spectroscopy

Isomer-specific detection of azaarenes in environmental samples by Shpol'skii luminescence spectroscopy, 354 (1997) 181

### Shpol'skii spectroscopy

Shpol'skii spectroscopy as a tool in environmental analysis for amino- and nitro-substituted polycyclic aromatic hydrocarbons: A critical evaluation, 333 (1996) 193

#### SIA

Evaluation of natural computation techniques in the modelling and optimization of a sequential injection flow system for colorimetric iron(III) determination, 348 (1997) 143

Sequential injection system in flame atomic absorption spectrometry for the determination of calcium and magnesium in mineral waters, 358 (1998) 111

#### Sialic acids

An improved spectrophotometric method for the determination of free, bound and total N-acetylneuraminic acid in biological fluids, 327 (1996) 277

# SID

Fragmentation of protonated oligopeptides XLDVLQ (X=L, H, K or R) by surface induced dissociation: additional evidence for the 'mobile proton' model, 397 (1999) 247

### Signal amplification

Optimization of capacitive affinity sensors: drift suppression and signal amplification, 392 (1999) 77

### Signal intensity

Choosing reference samples for EPR concentration measurements.

Part 1. General introduction and systems of S=12, 339 (1997)

1

Choosing reference samples for EPR concentration measurements. Part 2. Systems of S=1, 339 (1997) 13

Choosing reference samples for EPR concentration measurements. Part 3. Systems of S=32, 339 (1997) 31

Choosing reference samples for EPR concentration measurements. Part 4. Systems of S=52, 339 (1997) 53

Electron paramagnetic resonance signal intensity of a line-like sample with a variable length situated at an arbitrary position along the common sample-cavity axis. Theoretical prediction versus experimental measurement, 367 (1998) 233

Analytical solution for the electron paramagnetic resonance signal intensity of a line-like sample of variable length whose centre is situated at an arbitrary position along the common sample–cavity x-axis, 373 (1998) 107

### Signal oscillations

Signal oscillations of a piezoelectric quartz crystal in liquids caused by compressional waves, 364 (1998) 189

# Signal processing

Signal enhancement of potentiometric stripping analysis using digital signal processing, 307 (1995) 15

### Signal ratio resolution method

Optimisation of resolution function in signals ratio method and deconvolution by polynomial division – quantitation of Cd(II) and In(III) from their global signals obtained at carbon fibre disk ultramicroelectrode, 382 (1999) 105

### Signal to noise ratio

Maximum entropy chromatogram reconstruction, 371 (1998) 1

### Signal-to-noise

Quality of resolution of black multicomponent systems, 390 (1999)

#### Silica

Solvatochromic studies of the surface polarity of silica under normal-phase conditions, 312 (1995) 127

Determination of dissolved silica in waters by a flow-based analysis system composed of a laser diode and a thin long flow-through cell, 318 (1996) 195

A convenient calibrant for silicon determination, 339 (1997) 297

#### Silica gel

Microcolumn ion chromatography of inorganic monovalent cations with indirect photometric detection and a silica gel column, 334 (1996) 39

Application of a silica gel column for the simultaneous determination of alkali and alkaline-earth metal ions with indirect photometric detection using benzyltrimethylammonium chloride as visualization agent, 341 (1997) 225

In situ monitoring of copper(II) fixation on silica gel in aqueous ammonia by means of dielectric measurements and quantitative analysis of adsorbed species, 361 (1998) 273

Diffuse reflection spectroscopy of indium sorbates with immobilized heterocyclic azo compounds, 364 (1998) 235

Voltammetric response of a copper(II) complex incorporated in silica-modified carbon-paste electrode, 385 (1999) 103

Selective solid phase extraction of mercury(II) by silica gel-immobilized-dithiocarbamate derivatives, 398 (1999) 297

# Silica gel functionalized

Sorption and preconcentration of metal ions on silica gel modified with 2,5-dimercapto-1,3,4-thiadiazole, 327 (1996) 183

### Silica modified electrodes

In situ monitoring of copper(II) fixation on silica gel in aqueous ammonia by means of dielectric measurements and quantitative analysis of adsorbed species, 361 (1998) 273

Selective monitoring of Cu<sup>(II)</sup> species using a silica modified carbon paste electrode, 385 (1999) 79

### Silica particles

Separation of particulate environmental samples by SPLITT fractionation using different operating modes, 345 (1997)

### Silica-gel coated Sep-Pak cartridges

Use of C<sub>18</sub> and silica-gel coated Sep-Pak cartridges for the determination of carbonyls in air by liquid chromatography, 367 (1998) 93

#### Silicate

- Sensitivity enhancement in the determination of silicate by ionexclusion chromatography using luminol chemiluminescence detection, 302 (1995) 173
- Simultaneous determination of orthophosphate and silicate in brackish water, 378 (1999) 183

### Silicate rocks

- Sequential separation of light rare-earth elements, thorium and uranium by miniaturized extraction chromatography: Application to isotopic analyses of silicate rocks, 339 (1997) 79
- Simultaneous determination of neodymium and samarium in silicate rocks and minerals by isotope dilution inductively coupled plasma mass spectrometry: Results on twenty geochemical reference samples, 351 (1997) 325

### Siliceous soil

Pseudo-total analysis for metallic elements in siliceous soil by acid digestion and flame atomic absorption spectrometry, 396 (1999) 293

#### Silicic acid

In situ determination of silicic acid in sea water based on FIA and colorimetric dual-wavelength measurements., 377 (1998) 157

#### Silicon

- A convenient calibrant for silicon determination, 339 (1997) 297

  Determination of silicon in airborne particulate matter by UVvisible spectrophotometry, 342 (1997) 239
- Micromachined biosensor terminals for the study of growing neurons, 385 (1999) 73
- Spectrophotometric determination of silicate in rain and aerosols by flow analysis, 396 (1999) 285

### Silicon dioxide surface

Ion beam sensitized SiO<sub>2</sub> surface for halide ions, 320 (1996) 289

### Silicon nitride

Analysis of silicon nitride bearings with laser ablation inductively coupled plasma mass spectrometry, 355 (1997) 113

### Silicon transducer

Immunoenzymatic application of a redox potential biosensor, 335 (1996) 127

### Silicone

Oxygen detection by fluorescence quenching of tetraphenylporphyrin immobilized in the original cladding of an optical fiber, 370 (1998) 1

### Silicone rubber

- Xenon tetrafluoride as a decomposition agent for silicone rubber for isolation and atomic emission spectrometric determination of trace metals, 340 (1997) 1
- One-component room temperature vulcanizing-type silicone rubber-based sodium-selective membrane electrodes, 355 (1997) 249
- Potentiometric behavior of metalloporphyrin-based ion-selective electrodes: Use of silicone rubber matrix for serum chloride analysis, 367 (1998) 175

### Silk fibroin

Silk fibroin/cellulose acetate membrane electrodes incorporating xanthine oxidase for the determination of fish freshness, 369 (1998) 245

### Silk fibroin membranes

Regenerated silk fibroin membrane as immobilization matrix for peroxidase and fabrication of a sensor for hydrogen peroxide utilizing methylene blue as electron shuttle, 316 (1995) 65

#### Siloxano

Polysiloxane based CHEMFETs for selective detection of Ca<sup>2+</sup> ions, 357 (1997) 225

#### Silver

- Remote electrochemical monitoring of trace silver, 318 (1996)
- Imidazole modified silver electrode and its application to the investigation of the electrochemistry of cytochrome c, 319 (1996) 275
- The determination of caesium and silver in soil and fungal fruiting bodies by electrothermal atomic absorption spectrometry, 327 (1996) 53
- Factors affecting the analytical applications of zeolite-modified electrodes Preconcentration of electroactive species, 340 (1997) 61
- Selective extraction of silver(I) over palladium(II) with ketonic derivatives of calixarenes from highly concentrated nitric acid, 341 (1997) 275
- Surface roughness with nanometer-scale Ag particles generated by ion implantation, 350 (1997) 209
- Direct determination of silver at parts-per-billion level in waters by derivative atomic absorption spectrometry using the atom trapping technique, 353 (1997) 79
- Synthesis and spectroscopic properties of new luminol-linked calixarene derivatives, 362 (1998) 121

# Silver colloid

- Surface-enhanced resonance Raman spectroscopy of 2-pyridylhydrazone and 1,10-phenanthroline chelate complexes with metal ions on colloidal silver, 318 (1996) 229
- Surface-enhanced Raman spectrometry of chiral β-blocker drugs on colloidal silver, 335 (1996) 87

# Silver complexes

Enhancing EMF stability of solid-state ion-selective sensors by incorporating lipophilic silver-ligand complexes within polymeric films, 321 (1996) 173

### Silver electrode

- Ellipsometric determination of the structure of surface-stabilized bilayer lipid membranes on silver metal, 357 (1997) 73
- Determination of sub-nanomolar concentrations of lead by anodicstripping voltammetry at the silver electrode, 385 (1999) 325

### Silver extraction

Thermodynamic characterization of the liquid-liquid extraction of silver by acyclic dithia benzene derivatives, 375 (1998) 127

#### Silver films

Solvent-induced morphology changes in thin silver films, 307 (1995) 341

### Silver ion-selective electrode

Silver(I)-selective membrane electrode based on hexathia-18crown-6, 381 (1999) 111

#### Silver solders

Extractive spectrophotometric determination of silver(I) at the 10<sup>-7</sup> M level using 1,10-phenanthroline and tetrabromophenolphthalein ethyl ester, 333 (1996) 167

### Silver surface

Immobilization of DNA on silver surface of bulk acoustic wave sensor and its application to the study of UV-C damage, 374 (1998) 31

#### Silver traces

Kinetics based determination of trace amounts of silver at the excess of copper ions, 394 (1999) 185

### Silver(I) complex

Iodide-selective electrodes based on the silver(I) complex of a novel N-thiocarbamoylimine-dithioether derivative, 329 (1996) 247

#### Silver(I) determination

Extractive spectrophotometric determination of silver(I) at the 10<sup>-7</sup>
M level using 1,10-phenanthroline and tetrabromophenolphthalein ethyl ester, 333 (1996) 167

# Silver(I) separation

Silver(I) ion-selective transport across polymer inclusion membranes containing new pyridino- and bipyridino-podands, 373 (1998) 167

# Silver-ion chromatography

Precise classification of virgin olive oils with various linoleic acid contents based on triacylglycerol analysis, 364 (1998) 83

### Simazine

Determination of simazine in water samples by waveguide surface plasmon resonance, 338 (1997) 109

Trace determination of triazine herbicides by means of coupledcolumn liquid chromatography and large volume injection, 338 (1997) 223

Hapten design for compound-selective antibodies: ELISAS for environmentally deleterious small molecules, 376 (1998) 83

Microplate immunoassay technique using polyelectrolyte carriers: kinetic studies and application to detection of the herbicide atrazine, 399 (1999) 151

### Similarity searches

Using similarity searches over databases of estimated <sup>13</sup>C NMR spectra for structure identification of natural product compounds, 316 (1995) 161

### Simple ligands

Influence of the ratio copper(II) to ligand concentrations and the nature of entering and leaving ligands on the lability of copper(II) complexes, 330 (1996) 273

### Simplex algorithm

Real-time simplex optimization of flow-injection systems for chemical analysis, 366 (1998) 313

#### Simplex degeneracy

Design and evaluation of an effective modified simplex method, 391 (1999) 257

### Simplex method

Quality compromises incorporated in simplex optimisation of a flow injection system, 348 (1997) 129

### Simplex optimisation

Chemometric methods for the development of a biosensor system and the evaluation of inhibition studies with solutions and mixtures of pesticides and heavy metals Part 1. Development of an enzyme electrodes system for pesticide and heavy metal screening using selected chemometric methods, 318 (1996) 275

Comparison of optimization algorithms for piecewise linear discriminant analysis: application to Fourier transform infrared remote sensing measurements, 331 (1996) 157

Design and evaluation of an improved simplex method, 371 (1998) 9
Design and evaluation of an effective modified simplex method, 391
(1999) 257

## SIMPLISMA

Chemometric analysis of diffuse reflectance spectra of Co<sup>2+</sup>exchanged zeolites: spectroscopic fingerprinting of coordination
environments, 348 (1997) 267

Study of the interaction of Al(III) with a soil fulvic acid in the acid pH range by self-modeling mixture analysis of synchronous fluorescence spectral data, 349 (1997) 23

### SIMS

Delayed extraction for improved resolution of ion/surface collision products by time-of-flight mass spectrometry, 397 (1999) 225

# Simulated annealing

Further investigation on a comparative study of simulated annealing and genetic algorithm for wavelength selection, 311 (1995) 1

Comparison of optimization algorithms for piecewise linear discriminant analysis: application to Fourier transform infrared remote sensing measurements, 331 (1996) 157

### Simulation

Simulation of chromatographic peaks by simple functions, 312 (1995) 263

Simulation of infrared spectra using artificial neural networks based on semiempirical and empirical data, 331 (1996) 63

Simultaneous determination of iron(II) and iron(III) by flow injection analysis A mathematical simulation of the detector response, 348 (1997) 101

### Simultaneous analysis

Application of a new spectrophotometric method for the analysis of a ternary mixture containing metamizol, paracetamol and caffeine in tablets, 359 (1998) 93

### Simultaneous detection

Simultaneous amperometric determination of some mono-, di-, and oligosaccharides in flow injection and liquid chromatography using two working enzyme electrodes with different selectivity, 349 (1997) 179

### Simultaneous determination

- Simultaneous determination of gallic acid and resorcinol based on an oscillating chemical reaction by the analyte pulse perturbation technique, 334 (1996) 323
- Hexadecylpyridinium chloride micelles for the simultaneous kinetic determination of cysteine and cystine by their induction of the iodine-azide reaction, 337 (1997) 341
- Simultaneous determination of vanadium(IV) and vanadium(V) as EDTA complexes by capillary zone electrophoresis, 339 (1997) 251
- Simultaneous determination of cobalt(II) and Ni(II) in water and soil samples with sequential injection analysis, 366 (1998) 177
- Study on the magnetic-polarization-resonance-synchronous-fluorimetry and its application to simultaneous determination of polycyclic aromatic hydrocarbons, 367 (1998) 11
- Simultaneous enzymatic spectrophotometric determination of ethanol and methanol by use of artificial neural networks for calibration, 398 (1999) 83

# Simultaneous determination of cadmium and indium ions

Optimisation of resolution function in signals ratio method and deconvolution by polynomial division – quantitation of Cd(II) and In(III) from their global signals obtained at carbon fibre disk ultramicroelectrode, 382 (1999) 105

### Simultaneous distillation-extraction (SDE)

A new multivariate approach for the optimisation of the simultaneous distillation-extraction technique for free fatty acids using a face centred cube experimental design: application to Parmigiano-Reggiano cheese, 386 (1999) 169

# Simultaneous equation method

Development of homogeneous phase-modulation fluoroimmunoassay for 2,4-dichlorophenoxyacetic acid, 395 (1999) 133

### Simultaneous multiple injection

Simultaneous multiple injection in monosegmented flow analysis, 371 (1998) 317

# Simultaneous optimisation

Quality compromises incorporated in simplex optimisation of a flow injection system, 348 (1997) 129

### Simultaneous quantitation

Simultaneous biosensing of inosine monophosphate and glutamate by use of immobilized enzyme reactors, 358 (1998) 127

### Simultaneous separations

Application of a silica gel column for the simultaneous determination of alkali and alkaline-earth metal ions with indirect photometric detection using benzyltrimethylammonium chloride as visualization agent, 341 (1997) 225

# Simultaneous zirconium and hafnium determination

Simultaneous determination of zirconium and hafnium as ternary complexes with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol and fluoride by reversed-phase liquid chromatography, 361 (1998) 177

### Simultaneously

Simultaneous determination of nitrite and nitrate in various samples using flow injection with spectrophotometric detection. 382 (1999) 15

### Single cell assay

Assaying neurotransmitters in and around single neurons with information-rich detectors, 400 (1999) 13

### Single cell dynamism

Visualized single cell dynamics and analysis of molecular tricks, 400 (1999) 33

# Single cell measurements

Cathophoresis paint insulated carbon fibre ultramicro disc electrode and its application to in vivo amperometric monitoring of quantal secretion from single rat melanotrophs, 378 (1999) 135

# Single microparticle

Immunoassay on a single microparticle: the effect of particle size and number on a miniaturized time-resolved fluorometric assay of free prostate-specific antigen, 387 (1999) 11

# Single molecule detection

Quantitative analysis by the polymerase chain reaction using fluorescence correlation spectroscopy, 365 (1998) 43

### Single-molecule DNA amplification

Recovery and amplification of plasmid DNA with atomic force microscopy and the polymerase chain reaction, 361 (1998) 1

### Single-standard calibration

A new flow injection single-standard calibration method for flame atomic absorption spectrometry based on dilution by microsample dispersion, 326 (1996) 49

### Singular value decomposition

- Random error bias in principal component analysis. Part I. derivation of theoretical predictions, 304 (1995) 257
- Random error bias in principal component analysis. Part II. Application of theoretical predictions to multivariate problems, 304 (1995) 273
- On the number of observable species, observable reactions and observable fluxes in chemometric studies and the role of multi-channel integration, 351 (1997) 337

# Size distribution

Optimisation of on-channel preconcentration in flow field-flow fractionation for the determination of size distributions of low molecular weight colloidal material in natural waters, 357 (1997) 187

# Size exclusion chromatography

Isolation of polybutenylsuccinimide-type dispersants from multigrade lubricating oils by classical cation exchange chromatography, 339 (1997) 109

# Size fractionation

Speciation of metals associated with natural water components by on-line membrane fractionation combined with inductively

- coupled plasma atomic emission and mass spectrometries, 327 (1996) 167
- Size fractionation of humic substances: Effect on protonation and metal binding properties, 334 (1996) 27

### Size separation

Separation of particulate environmental samples by SPLITT fractionation using different operating modes, 345 (1997) 99

# Size-exclusion

Size-exclusion high-performance liquid chromatography of peptides: a review, 352 (1997) 387

# Size-exclusion chromatography

Hemoglobin interference with an enzyme-linked immunosorbent assay for the detection of tumor necrosis factor-alpha, 313 (1995) 1

# Skeletal muscle

Gel electrophoresis for studying biological function, 372 (1998)

### Skewed peaks

Global treatment of chromatographic data with MICHROM, 348 (1997) 187

# Slotted tube atom trap (STAT)

Applications of a slotted tube atom trap and flame atomic absorption spectrometry: determination of bismuth in copper-based alloys with and without hydride generation, 311 (1995) 93

### Sludges

- Inductively coupled plasma mass spectrometric determination of heavy metals in soil and sludge candidate reference materials, 304 (1995) 307
- Solid sampling electrothermal vaporization inductively coupled plasma mass spectrometry for the direct determination of Hg in sludge samples, 383 (1999) 253

# Slurry nebulization

Application of slurry sample introduction to a low-power inductively coupled plasma atomic emission spectrometer incorporating a mini-torch, 342 (1997) 83

### Slurry samples

- Optimised simultaneous multi-element analysis of environmental slurry samples by inductively coupled plasma atomic emission spectrometry using a segmented array charge-coupled device detector, 311 (1995) 123
- Automated injection of slurry samples in flow-injection analysis, 324 (1996) 13

# Slurry sampling

- Slurry sampling for the determination of lead, cadmium and thallium in soils and sediments by electrothermal atomic absorption spectrometry with fast-heating programs, 328 (1996) 19
- Determination of nickel in human scalp hair by slurry sampling electrothermal atomic absorption spectrometry, 349 (1997) 319

- Determination of Co and Ni in soils and river sediments by electrothermal atomic absorption spectrometry with slurry sampling, 355 (1997) 277
- Determination of metals in highly saline matrices by solid-phase extraction and slurry-sampling inductively coupled plasma-atomic emission spectrometry, 375 (1998) 293
- Optical fibres: atomic spectroscopic methods for the determination of fluoride glasses composition, 383 (1999) 243
- Direct determination of cadmium in solid biological materials by slurry sampling electrothermal atomic absorption spectrometry with polytetrafluoroethylene as a chemical modifier, 391 (1999) 89
- Rapid acid leaching and slurry sampling procedures for the determination of methyl-mercury and total mercury in human hair by electrothermal atomic absorption spectrometry, 398 (1999) 263

#### Small volume detection

Micro-interferometric backscatter detection using a diode laser, 400 (1999) 265

# Small-scale purification

Application of polyacrylamide slab gel electrophoresis to the analysis and small-scale purification of amyloid proteins, 372 (1998) 161

#### Smooth muscle

Gel electrophoresis for studying biological function, 372 (1998) 33

### Smoothed principal component analysis (SPCA)

Smoothed window factor analysis, 381 (1999) 233

# Smoothed window factor analysis (SWFA)

Smoothed window factor analysis, 381 (1999) 233

# Smoothing

- Global treatment of chromatographic data with MICHROM, 348 (1997) 187
- A numerical procedure for curve fitting of noisy infrared spectra, 376 (1998) 169

### Smoothing data

Application of Fourier transform to four-electrode microvoltammetric system for studies on micro-ITIES electroanalysis, 382 (1999) 137

### Snow

- Determination of lead isotopic ratios in Greenland and Antarctic snow and ice at picogram per gram concentrations, 311 (1995) 141
- Measurement of bismuth at pg  $g^{-1}$  concentrations in snow and ice samples by thermal ionisation mass spectrometry, 347 (1997) 351

### Snow-water

Flow injection chemiluminescent determination of trace amounts of hydrogen peroxide in snow-water using KIO<sub>4</sub>-K<sub>2</sub>CO<sub>3</sub> system, 371 (1998) 171

### Snuff

Analysis of solid samples using supported liquid membranes: a method for the evaluation of the release of nicotine from Swedish snuff, 387 (1999) 155

#### SNV

The robust normal variate transform for pattern recognition with near-infrared data, 382 (1999) 87

#### Sodium

Determination of sodium, potassium, calcium and magnesium cations by capillary electrophoresis compared with ion chromatography, 314 (1995) 67

Sodium-selective electrodes based on triester monoacid derivatives of p-tert-butylcalix[4]arene. Comparison with tetraester calix[4]arene ionophores, 336 (1996) 1

Determination of ultratrace metallic impurities in fluorocarbon polymers by electrothermal atomic absorption spectrometry after decomposition with a combustion system, 336 (1996) 151

Ion-selective optode membranes using 9-(4-diethylamino-2-octadecanoatestyryl)-acridine acidochromic dye, 398 (1999) 1

# Sodium 9,10-anthraquinone-2-sulfonate

Determination of DNA using sodium 9,10-anthraquinone-2-sulfonate as an in situ photochemical fluorescence probe, 340 (1997)

#### Sodium acetate

Study of the catalytic polarographic reduction of Ni(II) in the presence of albumin, immunoglobulins and serum proteins Determination of total proteins in serum, 317 (1995) 319

### Sodium bromate

Determination of molybdenum using polarographic catalytic current, 309 (1995) 73

### Sodium cuprate

Multicomponent analysis of sodium cuprate, NaCuO<sub>2-x</sub>, having a high Cu(III) content, 334 (1996) 103

### Sodium dodecyl sulfate

Determination of anabolic steroids in pharmaceuticals by liquid chromatography with a microemulsion of sodium dodecyl sulfate and pentanol as mobile phase, 302 (1995) 163

Comparing organized media types using fluorescence probe characterization methods, 307 (1995) 419

Modelling and optimization of the separation of steroids eluted with a micellar mobile phase of sodium dodecyl sulphate containing acetonitrile, 333 (1996) 31

The amperometric biosensor for detection of sodium dodecyl sulfate, 347 (1997) 19

Separation of barbiturates in micellar liquid chromatography by means of a multifactor design, 356 (1997) 19

Spectrophotometric method for the determination of an anionic surfactant without liquid-liquid extraction, 362 (1998) 157

### Sodium hypochlorite

Chemiluminescence arising from the oxidation of bilirubin in aqueous media, 333 (1996) 267

### Sodium 1-naphthol-4-sulfonate

Spectrophotometric determination of nitrate and nitrite in soil and water samples with a diazotizable aromatic amine and coupling agent using column preconcentration on naphthalene supported with ion-pair of tetradecyldimethylbenzylammonium and iodide, 350 (1997) 295

### Sodium perfluorooctanoate

Aqueous two-phase extraction system of sodium perfluorooctanoate and dodecyltriethylammonium bromide mixture and its application to porphyrins and dyes, 390 (1999) 125

### Sodium tetraethylborate(III)

Comparison of plumbane and tetraethyllead for the determination of lead by inductively coupled plasma atomic emission spectrometry, 309 (1995) 369

### Sodium tetrahydroborate(III)

Comparison of plumbane and tetraethyllead for the determination of lead by inductively coupled plasma atomic emission spectrometry, 309 (1995) 369

#### Sodium thiosulphate

Cathodic stripping voltammetry of thiosulphate at toxic concentrations, 386 (1999) 221

### Soft drinks

Fibre optic biosensor for the determination of p-glucose based on absorption changes of immobilized glucose oxidase, 319 (1996) 103

### Soft metal

Immobilized soft-metal affinity system for amino acids based on an 8-hydroxyquinoline-Pd(II) complex; characterization using glycine as a model, 315 (1995) 339

# Soft-modelling

Influence of selectivity and polyelectrolyte effects on the performance of soft-modelling and hard-modelling approaches applied to the study of acid-base equilibria of polyelectrolytes by spectrometric titrations, 331 (1996) 195

### Software

A computer program for ranking analytical methods according to their fitness for purpose, 360 (1998) 215

### Software testing

Design and use of reference data sets for testing scientific software, 380 (1999) 339

### Soil and water samples

Spectrophotometric determination of nitrate and nitrite in soil and water samples with a diazotizable aromatic amine and coupling agent using column preconcentration on naphthalene supported with ion-pair of tetradecyldimethylbenzylammonium and iodide, 350 (1997) 295

# Soil chemistry

Development of sedimentation field-flow fractionation-inductively coupled plasma mass-spectrometry for the characterization of environmental colloids, 381 (1999) 315

#### Soil column extraction

Soil column extraction followed by liquid chromatography and electrospray ionization mass spectrometry for the efficient determination of aryloxyphenoxypropionic herbicides in soil samples at ng g<sup>-1</sup> levels, 375 (1998) 107

#### Soil extracts

Direct determination of phosphate in soil extracts by potentiometric flow injection using a cobalt wire electrode, 363 (1998) 191

#### Soil horizons

Study of the acid-base properties of three fulvic acids extracted from different horizons of a soil, 385 (1999) 443

### Soil samples

Simultaneous determination of cobalt(II) and Ni(II) in water and soil samples with sequential injection analysis, 366 (1998) 177

#### Soils

- Inductively coupled plasma mass spectrometric determination of heavy metals in soil and sludge candidate reference materials, 304 (1995) 307
- Voltammetric determination of Prometrine in soil and water, 305 (1995) 207
- Microwave-assisted robotic method for the determination of trace metals in soil, 308 (1995) 371
- Adsorptive complex catalytic polarographic determination of germanium in soils and vegetables, 309 (1995) 103
- Determination of soil pH using a laboratory robot, 310 (1995) 319
  Orthogonal array design for the optimization of closed-vessel microwave digestion parameters for the determination of trace metals in sediments, 314 (1995) 121
- Fast screening of contaminated soil samples using thermal desorption mass spectrometry, 315 (1995) 159
- Broadening the antibody specificity by hapten design for an enzyme-linked immunoassay as an improved screening method for the determination of nitroaromatic residues in soils, 315 (1995) 279
- Simultaneous use of evolving factor analysis of fluorescence spectral data and analysis of pH titration data for comparison of the acid-base properties of fulvic acids, 318 (1996) 365
- Use of fluorescence polarization to probe the structure and aluminum complexation of three molecular weight fractions of a soil fulvic acid, 321 (1996) 113
- The determination of caesium and silver in soil and fungal fruiting bodies by electrothermal atomic absorption spectrometry, 327 (1996) 53
- Slurry sampling for the determination of lead, cadmium and thallium in soils and sediments by electrothermal atomic absorption spectrometry with fast-heating programs, 328 (1996) 19
- Aluminum speciation by liquid chromatography concerning hydroand geo-chemical aspects, 332 (1996) 233
- Classification of binding sites for Al(III) in fulvic acids extracted from leaf litters and soils by synchronous fluorescence spectroscopy and multidimensional chemometric analysis, 333 (1996) 71
- In situ detection of trinitrotoluene and other nitrated explosives in soils, 341 (1997) 63

- The aluminium(III)-4-nitrocatechol system: potentiometry, voltammetry and application to the determination of reactive Al(III), 345 (1997) 5
- Determination of pentachlorophenol in certified waste waters, soil samples and industrial effluents using ELISA and liquid solid extraction followed by liquid chromatography, 346 (1997) 49
- Effects of parameters on microwave assisted extraction of triazines from soil: evaluation of an optimisation trajectory, 348 (1997) 247
- Study of the interaction of Al(III) with a soil fulvic acid in the acid pH range by self-modeling mixture analysis of synchronous fluorescence spectral data, 349 (1997) 23
- Determination of imidacloprid and its major metabolite in soils by liquid chromatography with pulsed reductive amperometric detection, 349 (1997) 199
- Spectrofluorimetric method for the determination of the total mercury content in sediment and soil, 355 (1997) 151
- Determination of Co and Ni in soils and river sediments by electrothermal atomic absorption spectrometry with slurry sampling, 355 (1997) 277
- Microwave-assisted digestion of soils for the determination of <sup>90</sup>Sr, 355 (1997) 283
- A critical evaluation of the three-stage BCR sequential extraction procedure to assess the potential mobility and toxicity of heavy metals in industrially-contaminated land, 363 (1998) 45
- Ultrasonication extraction and solid phase extraction clean-up for determination of US EPA 16 priority pollutant polycyclic aromatic hydrocarbons in soils by reversed-phase liquid chromatography with ultraviolet absorption detection, 364 (1998) 1
- Microwave-assisted extraction of atrazine from soil followed by rapid detection using commercial ELISA kit, 371 (1998) 97
- Analysis of soil and dust samples for polychlorinated biphenyls by enzyme-linked immunosorbent assay (ELISA), 376 (1998) 67
- Study of soil humic substances by cross-polarization magic angle spinning <sup>13</sup>C nuclear magnetic resonance and pyrolysis-capillary gas chromatography, 378 (1999) 177
- Microwave-assisted pre-treatment of environmental samples for the determination of 90Sr, 379 (1999) 135
- Comparison of different drying, extraction and detection techniques for the determination of priority polycyclic aromatic hydrocarbons in background contaminated soil samples, 383 (1999) 263
- X-ray fluorescence determination of mobile forms of Cu, Zn and Co in soils with preconcentration on silica gel modified by didecylaminoethyl-B-tridecylammonium iodide, 383 (1999) 277
- Resonant mirror-based optical immunosensor: application for the measurement of atrazine in soil, 399 (1999) 29

# Soils and waters

Speciation determination of aluminium (Al<sup>3+</sup>) by flow injection amperometry via the 1,2-dihydroxyanthraquinone-3-sulfonic acid complex, 349 (1997) 111

### Sol-gel

CeO<sub>2</sub> thin film electrode with a built-in electrochemically resetable oxidant for potentiometric stripping analysis, 329 (1996) 239

Fluorosensors for ammonia using rhodamines immobilized in plasticized poly(vinyl chloride) and in sol-gel; a comparative study, 342 (1997) 207

- Sol-gel immobilized room-temperature phosphorescent metalchelate as luminescent oxygen sensing material, 360 (1998) 17
- pH optical sensors based on sol-gels: Chemical doping versus covalent immobilization, 367 (1998) 159
- A fiber-optic pH sensor prepared using a base-catalyzed organosilica sol-gel, 376 (1998) 235
- Organically modified silicate films for stable pH sensors, 394 (1999) 195
- Functional-group effects on the ion-exchange properties of organically modified silicates, 397 (1999) 113
- Optochemical sensing by immobilizing fluorophore-encapsulating liposomes in sol-gel thin films, 400 (1999) 45

### Sol-gel chemistry

Low-potential stable detection of β-NADH at sol-gel derived carbon composite electrodes, 360 (1998) 171

### Sol-gel films

Fluorimetric determination of mercury with a water-soluble porphyrin and porphyrin-doped sol-gel films, 304 (1995) 107

#### Sol-gel glass

Immunoaffinity chromatography of polycyclic aromatic hydrocarbons in columns prepared by the sol-gel method, 339 (1997) 241

# Sol-gel methods

- Sol-gel horseradish peroxidase biosensor for hydrogen peroxide detection by chemiluminescence, 363 (1998) 221
- Functionalized inorganic-organic composite material derivated by sol-gel for construction of mediated amperometric hydrogen peroxide biosensor, 388 (1999) 71

### Sol-gel processes

Sol-gel materials for electrochemical biosensors, 399 (1999) 21

### Sol-gel silica

Thermogravimetry/mass spectrometry of urease-immobilized solgel silica and the application of such a urease-modified electrode to the potentiometric determination of urea, 384 (1999) 219

# Sol-gel technique

- Silica sol-gel immobilized amperometric biosensor for hydrogen peroxide, 335 (1996) 137
- Silica sol-gel immobilized amperometric biosensor for the determination of phenolic compounds, 362 (1998) 203
- Fabrication of a chemically modified electrode containing 12molybdophosphoric acid by the sol-gel technique and its application as an amperometric detector for iodate, 394 (1999) 73

# Solid based titrimetry

Solid based titrimetry, 318 (1996) 373

### Solid biological samples

Direct determination of cadmium in solid biological materials by slurry sampling electrothermal atomic absorption spectrometry with polytetrafluoroethylene as a chemical modifier, 391 (1999)

# Solid complexes

Complexes of Zn(II) and Cd(II) with 4-(2-pyridylazo)resorcinol sorbed on sephadex QAE: characterization and theoretical study, 389 (1999) 281

### Solid contact

- A potassium-ion selective electrode with valinomycin based poly(-vinyl chloride) membrane and a poly(vinyl ferrocene) solid contact, 302 (1995) 241
- Solid-contact ion-selective electrode with stable internal electrode, 320 (1996) 53

# Solid electrode preparation

Solid electrodes from refractory powder materials prepared for electroanalytical purposes by a novel method, 364 (1998) 181

#### Solid matrices

Solid-matrix luminescence analysis: photophysics, physicochemical interactions and applications, 351 (1997) 1

# Solid matrix phosphorescence

Infrared study of the interactions of moisture with filter paper and the moisture quenching of solid-matrix room temperature phosphorescence, 324 (1996) 61

### Solid medium membrane

Determination of microorganisms with a quartz crystal microbalance sensor, 319 (1996) 97

### Solid phase detection

Non-porous spherical polymer particles for luminescent solid phase detection reactors, 320 (1996) 87

### Solid phase extraction

- Column solid phase extraction as preconcentration method for trace element determination in oxalic acid by atomic absorption spectrometry and inductively coupled plasma atomic emission spectrometry, 307 (1995) 71
- Comparative study of on-line solid phase extraction followed by UV and electrochemical detection in liquid chromatography for the determination of priority phenols in river water samples, 311 (1995) 63
- Microwave-assisted solvent elution technique for the extraction of organic pollutants in water, 330 (1996) 217
- Determination of copper speciation in freshwater samples through SPE-spectrophotometry, 343 (1997) 259
- Evaluation of extraction alternatives for Fourier transform infrared spectrometric determination of oil and greases in water, 345 (1997) 161
- Sample preparation and reversed phase-high performance liquid chromatography analysis of food-derived peptides, 352 (1997)
- Gas chromatographic analysis of pesticides in water with off-line solid phase extraction, 356 (1997) 155
- Determination of *trans*-resveratrol and other polyphenols in wines by a continuous flow sample clean-up system followed by capillary electrophoresis separation, 359 (1998) 27
- Study of sorption of copper(II) on complexing resin columns by solid phase extraction, 389 (1999) 59

Acidic and non-acidic products from the photo-oxidation of the crude oil component dibenzothiophene dissolved in seawater, 392 (1999) 19

The effects of surfactants on the analysis of organic pollutants in natural waters, 392 (1999) 39

Determination of oil and grease by solid phase extraction and infrared spectroscopy, 395 (1999) 77

Application of indoleacetic acid-imprinted polymer to solid phase extraction, 395 (1999) 251

Selective solid phase extraction of mercury(II) by silica gel-immobilized-dithiocarbamate derivatives, 398 (1999) 297

### Solid phase reactor

Flow spectrophotometric determination of ammonium ion, 398 (1999) 311

### Solid phase separations

Perturbation of a solid phase separation process by a non-thermal microwave effect, 387 (1999) 113

### Solid phase spectrometry

A selective optosensor for UV spectrophotometric determination of thiamine in the presence of other vitamins B, 376 (1998) 227

# Solid phase spectrophotometry

The application of Doehlert designs in the optimization of experimental variables in solid phase spectrophotometry, 316 (1995)

Solid-phase spectrophotometric determination of trace amounts of hydrazine at sub-ng ml<sup>-1</sup> level, 353 (1997) 115

### Solid phase spectroscopy

Continuous flow-through solid phase spectrophotometric determination of trace amounts of zinc, 375 (1998) 71

### Solid phase synthesis

Monitoring solid phase synthesis by infrared spectroscopic techniques, 393 (1999) 213

Evaluating the quality of oligonucleotides that are immobilized on glass supports for biosensor development, 395 (1999) 273

### Solid phase ultraviolet absorptiometry

Sensitive and selective determination of diclofenac sodium in pharmaceutical preparations by solid phase ultraviolet absorptiometry, 369 (1998) 263

### Solid polymer electrolytes

Electrochemical response to H<sub>2</sub>, O<sub>2</sub>, CO<sub>2</sub> and NH<sub>3</sub> of a solid-state cell based on a cation- or anion-exchange membrane serving as a solid polymer electrolyte, 310 (1995) 139

Electrochemical sensors with solid polymer electrolytes, 385 (1999) 151

Solid-state microelectrode oxygen sensors, 388 (1999) 51

### Solid samples

A robotic-flow injection approach to the fully automated determination of starch in food, 333 (1996) 205

Nitrogen speciation analysis in solid samples by integrated pervaporation and detection, 354 (1997) 135 Analysis of solid samples using supported liquid membranes: a method for the evaluation of the release of nicotine from Swedish snuff. 387 (1999) 155

# Solid sampling

Solid sampling electrothermal vaporization inductively coupled plasma mass spectrometry for the direct determination of Hg in sludge samples, 383 (1999) 253

#### Solid scintillation detectors

Determination of a mixture of gamma-emitting radionuclides using solid scintillation detectors and multivariate calibration, 379 (1999) 121

### Solid sorbent

Preconcentration of inorganic species of antimony by sorption on Polyorgs 31 followed by atomic absorption spectrometry detection, 342 (1997) 167

#### Solid state sensor

A fluorescence lifetime-based solid sensor for water, 350 (1997) 97

### Solid supported liquid membrane

Chemical pumping of rhodium by a supported liquid membrane containing Aliquat 336 as carrier, 346 (1997) 199

### Solid-liquid extraction

Selective extraction of polychlorinated biphenyls from dairy products using steam distillation-solvent extraction at normal pressure, 376 (1998) 313

# Solid-liquid interface

Investigation of adsorption-dissociation mechanism of organic molecules at solid-liquid interface using nonlinear optical molecular probing method, 397 (1999) 73

# Solid-phase

Determination of manganese in natural water and effluent streams using a solid-phase lead(IV) dioxide reactor in a flow-injection system, 350 (1997) 15

# Solid-phase extraction

Performance of two immunoassays for the determination of atrazine in sea water samples as compared with on-line solid phase extraction-liquid chromatography-diode array detection, 330 (1996) 41

Determination of dimethoate and fenitrothion in estuarine samples by C-18 solid-phase extraction and high-resolution gas-chromatography with nitrogen-phosphorus detection, 335 (1996) 51

Column solid-phase extraction of heavy metal ions on a high surface area CeO<sub>2</sub> as a preconcentration method for trace determination, 336 (1996) 141

Differential pulse polarographic determination of ceftazidime in urine samples with and without prior extraction, 351 (1997) 105

Microextraction procedures combined with large volume injection in capillary gas chromatography for the determination of pesticide residues in environmental aqueous samples, 356 (1997) 125

A new derivatization procedure for the determination of cephalexin with 1,2-naphthoquinone 4-sulphonate in pharmaceutical and urine samples using solid-phase extraction cartridges and UV-visible detection, 370 (1998) 115

- Determination of metals in highly saline matrices by solid-phase extraction and slurry-sampling inductively coupled plasma-atomic emission spectrometry, 375 (1998) 293
- Speciation of copper and manganese in milk by solid-phase extraction/inductively coupled plasma-atomic emission spectrometry, 375 (1998) 299
- New trends in environmental trace-analysis of organic pollutants: class-selective immunoextraction and clean-up in one step using immunosorbents, 376 (1998) 21
- Determination of nano-molar levels of formaldehyde in drinking water using flow-injection system with immobilized formaldehyde dehydrogenase after off-line solid-phase extraction, 378 (1999) 169
- Determination of the pesticide Naptalam, at the ppb level, by FIA with fluorimetric detection and on-line preconcentration by solid-phase extraction on C<sub>18</sub> modified silica, 384 (1999) 185
- Determination of trace levels of polychlorinated biphenyls on reversed phase octadecyl bonded silica membranes, 386 (1999) 271
- D1 protein an effective substitute for immunoglobulins in ELISA for the detection of photosynthesis inhibiting herbicides, 398 (1999) 49

## Solid-phase hybridization

Quantitative analysis for solid-phase hybridization reaction and binding reaction of DNA binder to hybrids using a quartz crystal microbalance, 327 (1996) 29

## Solid-phase immunoextraction

Potential of immunoextraction coupled to analytical and bioanalytical methods (liquid chromatography, ELISA kit and phosphatase inhibition test) for an improved environmental monitoring of cyanobacterial toxins, 399 (1999) 75

## Solid-phase microextraction

- Determination of benzene derivatives in water by solid-phase microextraction, 343 (1997) 101
- Inter-laboratory studies for the validation of solid-phase microextraction for the quantitative analysis of volatile organic compounds in aqueous samples, 356 (1997) 113
- Determination of benzophenone-3 and metabolites in water and human urine by solid-phase microextraction and quadrupole ion trap GC-MS, 371 (1998) 195
- Extraction of methylxanthines from human body fluids by solidphase microextraction, 387 (1999) 53
- Field air analysis with SPME device, 400 (1999) 153

# Solid-phase reactor

- Continuous-flow spectrophotometric determination of sulfadiazine by diazotisation with in situ preparation of nitrite, 308 (1995) 451
- Flow injection spectrophotometric determination of L-ascorbic acid in pharmaceutical formulations with on-line solid-phase reactor containing copper (II) phosphate, 366 (1998) 55
- Determination of sulphide in effluent streams using a solid-phase lead(II) chromate reactor incorporated into a flow-injection system, 369 (1998) 157

Solid-phase reactor with copper(II) phosphate for flow-injection spectrophotometric determination of aspartame in tabletop sweeteners, 384 (1999) 167

# Solid-phase spectrophotometry

- Determination of colorant matters mixtures in foods by solid-phase spectrophotometry, 331 (1996) 141
- Indirect determination of ascorbic acid by solid-phase spectrophotometry, 360 (1998) 143
- Application of Doehlert optimization and factorial designs in developing and validating a solid-phase spectrophotometric determination of trace levels of cadmium, 382 (1999) 117
- Flow-injection solid-phase spectrophotometry for the determination of zinc in pharmaceutical preparations, 383 (1999) 309

## Solid-state

- A strategy for the broad range detection of compounds with affinity for nucleic acids, 347 (1997) 79
- Micromachined biosensor terminals for the study of growing neurons, 385 (1999) 73

## Solid-state ion sensor

Shift and drift of electromotive forces of solid-state electrodes with ion-selective liquid membranes, 331 (1996) 85

## Solid-state ion-selective sensors

Enhancing EMF stability of solid-state ion-selective sensors by incorporating lipophilic silver-ligand complexes within polymeric films, 321 (1996) 173

# Solid-state sensors

Electrochemical sensors with solid polymer electrolytes, 385 (1999) 151

## Solubility

- Spectrophotometric study of the solubility and the protolytic properties of 1-(2-pyridylazo)-2-naphthol in different ethanol-water solutions, 360 (1998) 153
- Determination of the solubility products of nitrilotriacetic acid, ethylenediaminetetraacetic acid and diethylenetriaminepentaacetic acid, 380 (1999) 105

## Solubility interactions

Chemical vapour sensing by surface plasmon resonance optical fibre sensor coated with fluoropolymer, 337 (1997) 225

## Solubility product

- Sulfate ion sensing based on a quartz-crystal microbalance immobilized with barium sulfate crystals grown on a self-assembled monolayer of phosphorylated 11-mercapto-1-undecanol, 375 (1998) 155
- Determination of the solubility products of nitrilotriacetic acid, ethylenediaminetetraacetic acid and diethylenetriaminepentaacetic acid, 380 (1999) 105

## Solubility-product based ion-sensor

Orthophosphate ion-sensors based on a quartz-crystal microbalance coated with insoluble orthophosphate salts, 338 (1997) 77

### Soluble membrane

New separation method for chromium(VI) in water by collection of its ternary complex on an organic solvent-soluble membrane filter, 332 (1996) 307

## Solute partitioning

Temperature and solvation effects on homologous series selectivity in reversed phase liquid chromatography, 307 (1995) 203

### Solute transport

Some spectroscopic and transport properties of a rare-earth chelate, Tb-PCTMP, 397 (1999) 267

### Solutes and chemical functions

Temperature effect on the characteristic solute-solvent retention interactions, calculated with Abraham's solvation model, for 16 GLC stationary phases, 377 (1998) 71

## Solution equilibria

Spectral study of interaction of thymol blue with protein in acidic solution, 341 (1997) 97

### Solvation equation

Application of inverse gas chromatography to characterisation of a polypyrrole surface, 363 (1998) 147

## Solvation parameter model

Conjoint prediction of the retention of neutral and ionic compounds (phenols) in reversed-phase liquid chromatography using the solvation parameter model, 368 (1998) 129

# Solvatochromic comparison method

Solvatochromic studies of the surface polarity of silica under normal-phase conditions, 312 (1995) 127

Relevant physicochemical factors in chromatographic separation of Alternaria alternata mycotoxins, 370 (1998) 79

# Solvatochromic dye

Detection of volatile organic compounds in the vapor phase using solvatochromic dye-doped polymers, 341 (1997) 53

# Solvatochromic parameters

Factor analysis applied to correlation between acidity constants of series of diuretics, quinolones and buffers, with solvatochromic parameters in water-acetonitrile mixtures, 347 (1997) 385

Solvent effects on protonation equilibria of peptides and quinolones by factor analysis applied to the correlation between dissociation constants and solvatochromic parameters in acetonitrile-water mixtures, 351 (1997) 397

Study of the influence of N-benzylideneanilines conformation on retention in normal phase liquid chromatography, 356 (1997) 187

## Solvatochromism

Relevant physicochemical factors in chromatographic separation of Alternaria alternata mycotoxins, 370 (1998) 79

Molecular design, characterization, and application of multi-information dyes for multi-dimensional optical chemical sensing. Molecular design concepts of the dyes and their fundamental spectral characteristics, 373 (1998) 271

Solvatochromogenic flavone dyes for the detection of water in acetone, 383 (1999) 299 Solvatochromic studies of solvation effects in reversed-phase liquid chromatography with addition of 1-propanol, 388 (1999) 345

# Solvent exposure

Solvent-induced morphology changes in thin silver films, 307 (1995) 341

## Solvent extraction

Determination of microgram amounts of free sulphur in transition metal sulphides using solvent extraction and molecular emission cavity analysis, 327 (1996) 139

Extractive spectrophotometric determination of silver(I) at the 10<sup>-7</sup> M level using 1,10-phenanthroline and tetrabromophenolphthalein ethyl ester, 333 (1996) 167

Solvent extraction of alkylphosphoric acid derivatives between water and immiscible organic solvents, 350 (1997) 197

Solvent extraction of arsenic from acid medium using zinc hexamethylenedithiocarbamate as an extractant, 360 (1998) 43

Coupling of flow injection wetting-film extraction without segmentation and phase separation to flame atomic absorption spectrometry for the determination of trace copper in water samples, 370 (1998) 151

Rapid determination of chemical oxygen demand by a semi-automated method based on microwave sample digestion, chromium(VI) organic solvent extraction and flame atomic absorption spectrometry, 372 (1998) 399

Determination of scandium in geological materials, rare earth minerals and niobate/tantalate-type of samples by inductively coupled plasma atomic emission spectrometry after solvent extraction/acid hydrolysis separation, 376 (1998) 273

Solvent extraction of copper(II) from chloride media using N-(thiocarbamoyl)benzamidine and N-benzoylthiourea derivatives, 382 (1999) 205

Solvent extraction of Pb(II) from acid medium with zinc hexamamethylenedithiocarbamate followed by back-extraction and subsequent determination by FAAS, 386 (1999) 281

## Solvent impregnated hollow fibre

Solvent impregnated hollow fibre for a selective preconcentration of Pb(II) in an on-line determination by flame atomic absorption spectrometry, 370 (1998) 141

## Solvent modification

Determination of N-methylcarbamate pesticides from spiked matrices using supercritical fluid extraction, 389 (1999) 53

## Solvents

Accelerated solvent extraction of lipids for determining the fatty acid composition of biological material, 358 (1998) 69

Whole-cell biosensor for determination of volatile organic compounds in the form of aerosols, 364 (1998) 153

## Somatostatin

Peptides as tools for studying propeptide and proprotein processing, 352 (1997) 155

## Sorbent extraction

Combination of flow injection with capillary electrophoresis. Part 3.

On-line sorption column preconcentration capillary electrophoresis system, 355 (1997) 135

## Soret effect

Influence of the Soret effect on the analytical signal in cw-laser thermal lens spectrometry of micellar solutions, 386 (1999)

## Sorption

Anion-exchange resin modified with pyrocatechol violet as a functional resin for retention of Sn(IV), 338 (1997) 231

Water solubility enhancement of pyrene in the presence of humic substances, by S. Tanaka et al.: comments, 355 (1997) 101

Mechanism of metribuzin herbicide sorption by humic ac.d samples from peat and vermicompost, 368 (1998) 155

X-ray fluorescence determination of mobile forms of Cu, Zn and Co in soils with preconcentration on silica gel modified by didecylaminoethyl-β-tridecylammonium iodide, 383 (1999) 277

Sorption and determination of Hg(II) on clay modified carbon paste electrodes, 385 (1999) 91

## Sorption and desorption

A chelating resin containing 4-(2-thiazolylazo)resorcinol as the functional group Synthesis and sorption behaviour for trace metal ions, 339 (1997) 303

### Sorption of metal ions

Sorption of divalent metal ions on an iminodiacetic resin from artificial seawater, 346 (1997) 381

## SOS-response

Microscale application of the SOS-LUX-TEST as biosensor for genotoxic agents, 387 (1999) 289

## Soup

A poly(vinyl choloride) graphite composite electrode for flowinjection amperometric determination of antioxidants, 395 (1999) 217

## Source apportionment

Classification of single particles by neural networks based on the computer-controlled scanning electron microscopy data, 348 (1997) 375

# Sources of errors

Sources of errors in the use of calorimetric references for photothermal spectroscopic methods, 334 (1996) 337

## Soybean

Monosegmented flow system exploiting multicommutation applied to spectrophotometric determination of manganese in soybean digests, 386 (1999) 129

# Space charge effect

Determination of rare earth impurities in ultrapure europium oxide by inductively-coupled plasma mass spectrometry, 314 (1995) 193

## Spallation nuclides

Nuclide analysis of an irradiated tantalum target of a spallation neutron source using high performance ion chromatography and inductively coupled plasma mass spectrometry, 387 (1999) 145

### SPARC

A comparison between different approaches to estimate the aqueous pK<sub>a</sub> values of several non-steroidal anti-inflammatory drugs, 338 (1997) 127

## Spatial distribution

Comparative analysis of topographic distribution of acetylated histone H4 by using confocal microscopy and a deconvolution system, 365 (1998) 9

## Spatial profiles

Multivariate data analysis as a tool for evaluating emission intensity, background equivalent concentration and detection limit obtained for different plasma positions in direct current plasma-atomic emission spectrometry, 354 (1997) 211

### SPE

Solid phase extraction and determination of ultra trace amounts of mercury(II) using octadecyl silica membrane disks modified by hexathia-18-crown-6-tetraone and cold vapour atomic absorption spectrometry, 355 (1997) 69

Ultrasonication extraction and solid phase extraction clean-up for determination of US EPA 16 priority pollutant polycyclic aromatic hydrocarbons in soils by reversed-phase liquid chromatography with ultraviolet absorption detection, 364 (1998) 1

### SPE electrodes

Amperometric gas sensors with detection limits in the low ppb range, 393 (1999) 43

## Speciation

A versatile macro- to micro-size stationary mercury drop electrode, 302 (1995) 1

The simultaneous speciation of aluminium and iron in a flowinjection system, 306 (1995) 5

Capillary electrophoresis in speciation analysis. Investigations of metal-polyaminopolycarboxylate complexes and effects of metals on proteins, 306 (1995) 91

A mechanized system for the determination of low levels of quickly reacting aluminium in natural waters, 306 (1995) 173

Improvement of extraction recovery for the monobutyltin species from sediment, 320 (1996) 165

Preconcentration and speciation of chromium by the determination of total chromium and chromium(III) in natural waters by flame atomic absorption spectrometry with a chelating ion-exchange flow injection system, 327 (1996) 37

Determination of butyltin compounds in marine biological samples by enzymatic hydrolysis and HG-GC-QFAAS detection, 327 (1996) 287

Stability of bacterium-mercury complexes and speciation of soluble inorganic mercury species, 330 (1996) 89

Determination of platinum and gold in anticancer and antiarthritic drugs and metabolites, 334 (1996) 5

Study of equilibria in cyanide systems by gas-diffusion measurement of hydrogen cyanide, 336 (1996) 131

Speciation of arsenobetaine in marine organisms using a selective leaching/digestion procedure and hydride generation atomic absorption spectrometry, 337 (1997) 323 Simultaneous determination of vanadium(IV) and vanadium(V) as EDTA complexes by capillary zone electrophoresis, 339 (1997) 251

Reproducibility testing of a sequential extraction scheme for the determination of trace metal speciation in a marine reference sediment by inductively coupled plasma-mass spectrometry, 342 (1997) 91

Preconcentration of inorganic species of antimony by sorption on Polyorgs 31 followed by atomic absorption spectrometry detection, 342 (1997) 167

Evaluation of selective uptake of selenium (Se(IV) and Se(VI)) and antimony (Sb(III) and Sb(V)) species by baker's yeast cells (Saccharomyces cerevisiae), 345 (1997) 249

Nickel speciation of fly ash by phase extraction, 349 (1997) 121

Speciation of Cu, Pb, Cd and Hg in waters of the Oporto coast in Portugal, using pre-concentration in a Chelamine resin column, 353 (1997) 189

Modification of the van den Berg/Ruzic method for the investigation of complexation parameters of natural waters, 354 (1997) 15

Nitrogen speciation analysis in solid samples by integrated pervaporation and detection, 354 (1997) 135

A dual arsenic speciation system combining liquid chromatographic and purge and trap-gas chromatographic separation with atomic fluorescence spectrometric detection, 358 (1998) 51

Comparison of two sequential extraction procedures for metal fractionation in sediment samples, 359 (1998) 133

Speeding up of a three-stage sequential extraction method for metal speciation using focused ultrasound, 360 (1998) 35

Speciation of halogenides and oxyhalogens by ion chromatographyinductively coupled plasma mass spectrometry, 360 (1998) 161

Introduction of hydrogen peroxide as an oxidant in flow injection analysis: speciation of Cr(III) and Cr(VI), 361 (1998) 125

Preconcentration and separation of inorganic selenium species on activated alumina, 363 (1998) 141

Flow-injection analysis wit potentiometric detection for the speciation of fluoride and calcium, 366 (1998) 23

Microwave-assisted sample decomposition in flow analysis, 366 (1998) 63

Speciative determination of chromium(VI) and chromium(III) using flow-injection on-line preconcentration and flame atomic-absorption spectrometric detection, 369 (1998) 69

Europium binding by fulvic acids, 369 (1998) 171

Speciation of copper and manganese in milk by solid-phase extraction/inductively coupled plasma-atomic emission spectrometry, 375 (1998) 299

Separation of radiolabelled arsenic compounds produced by neutron irradiation of organoarsenic compounds, 380 (1999) 63

Aluminum speciation by means of anion chromatography and coupled anion/cation chromatography, 386 (1999) 77

Speciation of antimony(III) and antimony(V) using hydride generation inductively coupled plasma atomic emission spectrometry combined with the rate of pre-reduction of antimony, 386 (1999) 297

Investigation of metallodrug-protein interactions by size-exclusion chromatography coupled with inductively coupled plasma mass spectrometry (ICP-MS), 387 (1999) 135 Speciation of iron in river and tap waters by catalytic spectrophotometry using oxidation of o-phenylenediamine with hydrogen peroxide, 388 (1999) 35

Determination of organometallic forms of mercury, tin and lead by in situ derivatization, trapping and gas chromatography – atomic emission detection, 394 (1999) 259

A dual radiotracer speciation technique with emphasis on probing of artefacts: a case study for technetium and spinach (Spinacia oleracea L.), 394 (1999) 271

Influence of column temperature on the ion chromatographic separation of aluminum species, 399 (1999) 223

Biochemical speciation analysis by hyphenated techniques, 400 (1999) 321

## Speciation analysis

Voltammetric determination of Cr(VI) in a flow system in the presence of diethylenetriaminepentaacetic acid (DTPA) following its deposition in the metallic state, 387 (1999) 97

# Speciation in seawater

Speciation of low molecular weight carboxylic ligands in natural fluids: protonation constants and association with major components of seawater of oxydiacetic and citric acids, 398 (1999) 103

## Speciation in solid samples

Continuous microwave assisted pervaporation/atomic fluorescence detection: An approach for speciation in solid samples, 324 (1996) 69

## Speciation of arsenic

Determination of As(III) and As(V) by flow injection-hydride generation-atomic absorption spectrometry via on-line reduction of As(V) by KI, 343 (1997) 5

## Speciation of fluoride

Determination of free and total fluoride in rain water using a continuous-flow system equipped with a fluoride ion-selective electrode detector, 364 (1998) 117

## Specific membrane bulk resistance

Potentiometric properties and impedance spectroscopic data of poly(vinyl chloride) membranes containing quaternary ammonium salts of different chemical structure, 393 (1999) 19

## Specific polymeric cladding

Chemical vapour sensing by surface plasmon resonance optical fibre sensor coated with fluoropolymer, 337 (1997) 225

# Specificity

The SFSTP guide on the validation of chromatographic methods for drug bioanalysis: from the Washington Conference to the laboratory, 391 (1999) 135

## Specimen preparation

Determination of small quantities of heavy metals in water-soluble salts and natural water by X-ray fluorescence, 371 (1998) 105

## Spectral data

A simplified calibration model of spectral data for quantitative analyses with different Raman spectrometers, 379 (1999) 159

## Spectral decomposition

Simultaneous decomposition of several spectra into the constituent Gaussian peaks, 316 (1995) 195

### Spectral fitting

Inductively coupled plasma-atomic emission spectral fitting analysis of rare-earth elements in ion-adsorption type ores, 362 (1998) 241

### Spectral interferences

Behaviour of matrix cations (Ca<sup>2+</sup>, K<sup>+</sup>, Mg<sup>2+</sup> and Na<sup>+</sup>) during online preconcentration and atomic spectrometric detection of trace metals in natural waters, 351 (1997) 311

Determination of the aqua regia soluble content of rare earth elements in fertilizer, animal fodder phosphate and manure samples using inductively coupled plasma mass spectrometry, 373 (1998) 95

## Spectral mapping technique

Use of spectral mapping technique for the separation of solvent strength and selectivity on β-cyclodextrin polymer-coated HPLC column using monoamine oxidase inhibitory drugs as solutes, 348 (1997) 197

Use of HPLC and multivariate methods for the evaluation of the stability of colour pigments of paprika (Capsicum annuum) powder, 372 (1998) 411

### Spectral methods

X-PERT: a user-friendly expert system for molecular structure elucidation by spectral methods, 337 (1997) 265

Expert systems as a tool for the molecular structure elucidation by spectral methods. Strategies of solution to the problems, 348 (1997) 443

# Spectral problems

Expert systems as a tool for the molecular structure elucidation by spectral methods. Strategies of solution to the problems, 348 (1997) 443

## Spectral radiance

Tests of an omnipresent standard for absolute spectral radiance measurements, 380 (1999) 311

## Spectral reflectance

Comparison of CIE chromaticity values, 380 (1999) 285 Infrared diffuse reflectance instrumentation and standards at NIST, 380 (1999) 289

# Spectral responsivity

Characterisation of optical detectors using high-accuracy instruments, 380 (1999) 327

# Spectral variation

A colorimetric method with the use of BDJ detector for seawater pH measurement, 377 (1998) 179

## Spectroabsorptiometer

A low power ultra violet spectrophotometer for measurement of nitrate in seawater: introduction, calibration and initial sea trials, 377 (1998) 167

## Spectrochromatograms

Resolution of overlapping peaks in HPLC with diode array detection by application of partial least squares calibration to cross-sections of spectrochromatograms, 348 (1997) 177

## Spectroelectrochemistry

Study of acetaminophen by parallel incident spectroelectrochemistry, 342 (1997) 13

Parallel incident spectroelectrochemistry study of chloramphenicol, 363 (1998) 67

Study of biomolecules by combining electrochemistry with UV/Vis, IR and surface enhanced Raman scattering spectroscopy by a novel flow microcell, 382 (1999) 171

## Spectrofluorimeter

Instrumentation, standards, and procedures used at the National Research Council of Canada for high-accuracy fluorescence measurements, 380 (1999) 193

## Spectrofluorimetric determination

Direct fluorimetric determination of dissolved aluminum in seawater at nanomolar levels, 355 (1997) 157

## Spectrofluorimetric method

Spectrofluorimetric method for the determination of the total mercury content in sediment and soil, 355 (1997) 151

## Spectrofluorimetry

Sensitive spectrofluorimetric method for the determination of ethylenediaminetetraacetic acid and its salts in foods with zirconium ions and Alizarin Red S in a micellar medium, 329 (1996) 319

Rapid spectrofluorimetric method for traces of gibberelin, 346 (1997) 249

Application of computerized compensation method to derivative synchronous spectrofluorimetry. Analysis of floctafenine and floctafenic acid in plasma, 351 (1997) 211

Spectrofluorimetric study of the acid-base equilibria and complexation behavior of the fluoroquinolone antibiotics ofloxacin, norfloxacin, ciprofloxacin and pefloxacin in aqueous solution, 354 (1997) 197

Determination of flufenamic and mefenamic acids in pharmaceutical preparations using organized media, 367 (1998) 41

Determination of metformin in pharmaceutical preparations using potentiometry, spectrofluorimetry and UV-visible spectrophotometry, 378 (1999) 299

## Spectrograph

New compact Echelle spectrographs with multichannel timeresolved recording capabilities, 380 (1999) 353

## Spectrometers

High-accuracy measurement of specular spectral reflectance and transmittance, 380 (1999) 317

## Spectrometry

Spectrophotometric determination of nitrate and nitrite in soil and water samples with a diazotizable aromatic amine and coupling agent using column preconcentration on naphthalene supported with ion-pair of tetradecyldimethylbenzylammonium and iodide, 350 (1997) 295

# Spectrophotometric

Determination of V(V) by a kinetic stopped-flow FIA method with spectrophotometric detection, 366 (1998) 287

Flow injection spectrophotometric determination of tenoxicam, 375 (1998) 277

## Spectrophotometric determination

Microbial enzymatic assay of glucose in serum, 349 (1997) 165

## Spectrophotometric enzymatic determination

Enzymatic determination of L(+) lactic and L(-) malic acids in wines by flow-injection spectrophotometry, 366 (1998) 187

### Spectrophotometric flow-injection

Direct spectrophotometric determination of chromium by microwave-oven induced flow-injection analysis, 374 (1998) 61

## Spectrophotometric method

Tautomeric and protonation equilibria of Schiff bases of salicylaldehyde with aminopyridines, 343 (1997) 135

The Schiff bases of salicylaldehyde and aminopyridines as highly sensitive analytical reagents, 343 (1997) 145

## Spectrophotometrical determination

Kinetic-catalytic-spectrophotometric determination of low concentrations of molybdenum in white wines, 390 (1999) 255

## Spectrophotometry

Sensitive determination of quaternary ammonium salts by extraction-spectrophotometry of ion associates with bromophenol blue anion and coextraction, 302 (1995) 75

Automatic continuous-flow determination of sulphite in the presence of a high concentration of thiosulphate, 302 (1995) 269 Simultaneous spectrophotometric determination of nitrite and

nitrate in a flow-injection system, 302 (1995) 283

Flow-injection spectrophotometric determination of copper using bis(cyclohexanone) oxalyldihydrazone, 304 (1995) 97

Second derivative spectrophotometric determination of partition coefficients of chlorpromazine and promazine between lecithin bilayer vesicles and water, 304 (1995) 101

Determination of molybdenum in sea water by solid-phase spectrophotometry, 304 (1995) 243

A spectrophotometric assay for phospholipase D, 304 (1995) 249
Determination of cadmium in foodstuffs and plant materials by flow
injection-spectrophotometry including ion exchange, 306 (1995)
343

A simple spectrophotometric determination of dissociation constants of organic compounds, 306 (1995) 351

Spectrophotometric determination of nitrite with 4-iodo-N,N-dimethylaniline, 306 (1995) 357

Sequential determination of arsenite and arsenate by ion chromatography, 307 (1995) 79

Use of arylidenerhodanines for the determination of Cu(II), Hg(II) and CN<sup>-</sup>, 307 (1995) 127

Spectrophotometric flow-through gas sensor for the determination of atmospheric nitrogen dioxide, 308 (1995) 109

Spectrophotometric determination of ℓ-asparagine by flow-injection analysis using ℓ-asparaginase immobilized on an epoxy resin, 308 (1995) 170 Spectrophotometric determination of calcium in paper machine white water by sequential injection analysis, 308 (1995) 286

On-line coated columns for the spectrophotometric determination of metals by continuous flow analysis, 308 (1995) 378

Continuous flow analysis: simultaneous spectrophotometric determinations of metals, 308 (1995) 386

Iron(II) and iron(III) determination in sea water at the nanomolar level with selective on-line preconcentration and spectrophotometric determination, 308 (1995) 425

Flow-injection spectrophotometric determination of trace iron in various salts. Elimination of blank peak effect and use of 2-(5-nitro-2-pyridylazo)-5-(N-propyl-N-sulfopropylamino)phenol as chromogenic agent, 308 (1995) 433

Determination of cadmium in fertilizers by flow-injection spectrophotometry, 308 (1995) 439

Routine assay of creatinine in newborn baby urine by spectrophotometric flow-injection analysis, 308 (1995) 446

Flow-injection spectrophotometric determination of carbimazole and methimazole, 308 (1995) 457

Clean analytical method for the determination of propoxur, 308 (1995) 462

Shipboard flow injection determination of sea water pH with spectrophotometric detection, 309 (1995) 259

Evaluation of multicomponent flow-injection analysis data by use of a partial least squares calibration method, 310 (1995) 53

Development and testing of a new computerized method for multicomponent kinetic determinations based on multiwavelength spectrophotometric detection, 310 (1995) 307

Spectrophotometric determination of total phenolics by solvent extraction and sorbent extraction optosensing using flow injection methodology, 310 (1995) 437

Multicommutation in flow analysis. Part 3. Spectrophotometric kinetic determination of creatinine in urine exploiting a novel zone sampling approach, 310 (1995) 447

Determination of Cu(II) and Ni(II) as chelates with butyl xanthate by liquid chromatography with electrochemical and spectrophotometric detection, 311 (1995) 225

Kinetic spectrophotometric determination of traces of tungsten(VI) by the catalytic reaction of chlorpromazine with hydrogen peroxide. A mechanistic study, 312 (1995) 179

Determination of oxygen stoichiometry in YBCO superconductors by spectrophotometry, 312 (1995) 223

Selection of calibration mixtures and wavelengths for different multivariate calibration methods, 313 (1995) 93

Spectrophotometric determination of bromate ions using phenothiazines, 313 (1995) 121

Robust regression used for the treatment of partial non-linearity in multivariate calibration, 313 (1995) 185

Determination of uranium in tin tailings using 4-(2-pyridylazo) resorcinol by flow-injection analysis, 314 (1995) 51

Spectrophotometric determination of uranium in natural water with the new chromogenic reagent p-carboxychlorophosphonazo, 314 (1995) 95

Spectrophotometric study of arsenazo III and its interactions with lanthanides, 314 (1995) 219

Improved titanium method for determination of atmospheric  $H_2O_2$ , 315 (1995) 225

- The application of Doehlert designs in the optimization of experimental variables in solid phase spectrophotometry, 316 (1995) 185
- New method of simultaneous and non-destructive determination of human serum albumin and globulin, 316 (1995) 387
- Spectrophotometric determination of trace bromide by its catalytic effect on the tetrabase-chloramine T reaction, 319 (1996) 199
- Spectrophotometric determination of chromium(VI) by extraction of protriptylinium dichromate, 319 (1996) 205
- Equilibrium modelling of interferences in the visible spectrophotometric determination of aluminium(III): comparison of the chromophores chrome azurol S, eriochrome cyanine R and pyrocatechol violet, and stability constants for eriochrome cyanine R-aluminium complexes, 319 (1996) 305
- Catalytic spectrophotometric methods for the determination of oxalic acid, 320 (1996) 139
- A comparative study of several chemometric methods applied to the treatment of two-way kinetic-spectral data for mixture resolution, 321 (1996) 75
- Determination of active components in insecticide formulations by liquid chromatography and resolution of overlapped peaks by multivariate analysis and derivative spectrophotometry, 321 (1996) 273
- Spectrophotometric determination of rhenium as perrhenate by extraction with amiloride hydrochloride, 322 (1996) 107
- Spectrophotometric determination of molybdenum in steel samples utilizing selective sorbent extraction on Amberlite XAD-8 resin, 322 (1996) 111
- On line coupling of a liquid—liquid extraction flow-reversal system to a spectrophotometric flow-through sensor for the determination of polyphenols in olive oil, 323 (1996) 55
- Flow injection spectrophotometric determination of ng ml<sup>-1</sup> levels of cobalt(II) using the photochemical decomposition of a cadmium(II)-water-soluble porphyrin complex, 323 (1996) 63
- Determination of calcium in water, urine and pharmaceutical samples by sequential injection analysis, 323 (1996) 75
- Photochemical derivatization and spectrophotometric determination of thioridazine by flow injection, 326 (1996) 23
- Determination of total phosphorus in waters and wastewaters by online UV/thermal induced digestion and flow injection analysis, 326 (1996) 29
- Simultaneous determination of aluminium and beryllium at the subnanogram per millilitre level by solid-phase derivative spectrophotometry, 327 (1996) 73
- An improved spectrophotometric method for the determination of free, bound and total N-acetylneuraminic acid in biological fluids, 327 (1996) 277
- Determination of uranium, thorium and lanthanum in mixed solutions using simultaneous spectrophotometry, 329 (1996) 173
- The determination of vanadium(V) in the presence of vanadium(IV) using 4-(2-pyridylazo)resorcinol in a flow-injection manifold, 329 (1996) 275
- Spectrophotometric determination of copper after extraction of its chelate with bis(acetylacetone)ethylenediimine, 329 (1996) 315
- Spectrophotometric determination of Allura Red (R40) in soft drink powders using the universal calibration matrix for partial least squares multivariate method, 330 (1996) 19

- A new approach for compensating concentration gradients in flow analysis, 331 (1996) 17
- Flow injection extraction spectrophotometric determination of copper using bis(acetylacetone)ethylenediimine, 331 (1996) 253
- Determination of sulphate in natural waters and industrial effluents by sequential injection analysis, 331 (1996) 271
- Approaches to in-line removal of dissolved oxygen in flow systems for process analysis, 332 (1996) 31
- Determination of ranitidine in pharmaceutical preparations using manual and flow injection potentiometry and spectrophotometry, 332 (1996) 39
- Flow injection determination of metrifonate by immobilised acetylcholinesterase inhibition, 332 (1996) 179
- Extractive spectrophotometric determination of silver(I) at the 10<sup>-7</sup> M level using 1,10-phenanthroline and tetrabromophenolphthalein ethyl ester, 333 (1996) 167
- Highly sensitive spectrophotometric determination of nitrite ion using 5,10,15,20-tetrakis(4-aminophenyl)porphine for application to natural waters, 333 (1996) 175
- A comparison of various calibration techniques applied to the ninhydrin-cefoxitin determination, 334 (1996) 199
- The spectrophotometric determination of bismuth after extraction of protriptylinium tetraiodobismuthate(III), 334 (1996) 209
- A new polymeric chromogenic reagent for the determination of copper(II), 334 (1996) 213
- Sensitivity enhancement of the methylene blue catalytic-spectrophotometric method of selenium(IV) determination by CTAB, 335 (1996) 155
- Study of equilibria in cyanide systems by gas-diffusion measurement of hydrogen cyanide, 336 (1996) 131
- Rapid and simple spectrophotometric determination of oxygen stoichiometry in YBCO superconducting materials, 336 (1996) 223
- Spectrophotometric determination of bismuth in pharmaceutical samples by extraction of the tetraiodobismuthate(III) anion into propylene carbonate, 337 (1997) 113
- Hexadecylpyridinium chloride micelles for the simultaneous kinetic determination of cysteine and cystine by their induction of the iodine-azide reaction, 337 (1997) 341
- Effective purification of ellagic acid by successive automatic recrystallization and absolute determination of purity by absorptivity ratio, 338 (1997) 247
- pH dependence of the reactions of arsenazo III with the lanthanides, 339 (1997) 271
- Simple spectrophotometric determination of tinidazole in formulation and serum, 340 (1997) 241
- Simultaneous spectrophotometric determination of ethinylestradiol and levonorgestrel by partial least squares and principal component regression multivariate calibration, 340 (1997) 257
- Spectral study of interaction of thymol blue with protein in acidic solution, 341 (1997) 97
- Interactions of uranium and thorium with arsenazo III in an aqueous medium, 341 (1997) 263
- Cloud point extraction, preconcentration and spectrophotometric determination of erbium(III)-2-(3,5-dichloro-2-pyridylazo)-5-dimethylaminophenol, 342 (1997) 229

- Determination of silicon in airborne particulate matter by UVvisible spectrophotometry, 342 (1997) 239
- Determination of copper speciation in freshwater samples through SPE-spectrophotometry, 343 (1997) 259
- Determination of ammonia in water and industrial effluent streams with the indophenol blue method using sequential injection analysis, 344 (1997) 281
- Spectrophotometric assay for amidolytic activity of alkaline protease from Pseudomonas aeruginosa, 345 (1997) 219
- Interaction of anions with arsenazo III-lanthanide (III) complexes, 345 (1997) 227
- Spectrophotometry of nucleic acids by their effect on the complex of cobalt(II) with 4-[(5-chloro-2-pyridyl)azo]-1,3-diaminobenzene, 345 (1997) 235
- Spectrophotometric and coulometric titration investigations of oxidation states and forms of ruthenium(IV) in hydrochloric acid solutions, 345 (1997) 243
- Rapid simultaneous determination of ruthenium and osmium in aqueous solutions of their tetroxides by second-order derivative spectrophotometry, 349 (1997) 53
- Formation of a stable adduct between 1,2-benzoquinone and dimethylamine and its application to the spectrophotometric determination of 1,2-benzoquinone, 351 (1997) 259
- Metal cyanide control in hydrometallurgical processing of gold ores by multivariate calibration procedures, 353 (1997) 123
- Spectrophotometric assay of aliphatic monohydroxamic acids and α-, β-, and γ-aminohydroxamic acids in aqueous medium, 353 (1997) 359
- Asymmetric porphyrin derivative having one reactive site as a highly sensitive spectrophotometric reagent for nitrite, 354 (1997) 159
- Simultaneous spectrophotometric determination of mixtures of food colorants, 354 (1997) 163
- Complexation reactions of uranyl with arsenazo III, 355 (1997) 95
- Spectrophotometric determination of cobalt by extraction of benzyltributylammonium tetrathiocyanatocobaltate(II), 355 (1997) 163
- Spectrophotometric determination of bismuth after extraction of benzyltributylammonium tetraiodobismuthate(III), 355 (1997) 167
- Spectrophotometric determination of perchlorate after extraction as protriptylinium perchlorate, 356 (1997) 141]
- Spectrophotometric determination of chromium(VI) by extraction of the dichromate anion into propylene carbonate, 356 (1997) 145
- A submersible flow injection-based sensor for the determination of total oxidised nitrogen in coastal waters, 361 (1998) 63
- Synthesis and spectroscopic properties of new luminol-linked calixarene derivatives, 362 (1998) 121
- Spectrophotometric method for the determination of an anionic surfactant without liquid-liquid extraction, 362 (1998) 157
- Flow injection conductimetric or spectrophotometric analysis for acidity in fruit juice, 363 (1998) 199
- Dissociation constants of methyl orange in aqueous alcohol solvents, 364 (1998) 275
- Flow-injection spectrophotometric catalytic determination of manganese in plants exploiting the aerial oxidation of diphenyl carbazone, 366 (1998) 87

- A multicommutated flow system with on-line compensation of the Schlieren effect applied to the spectrophotometric determination of pindolol, 366 (1998) 209
- Indirect determination of phytic acid in urine, 367 (1998) 63
- Sequential-injection spectrophotometric determination of amino acids using 2,4,6-trinitrobenzenesulphonic acid, 369 (1998) 163
- A polyvalent flow injection system for multielemental spectrophotometric analysis of plant materials, 370 (1998) 39
- Flow injection determination of neostigmine and galanthamine by immobilised acetylcholinesterase inhibition, 372 (1998) 379
- Multicommutation in flow analysis exploiting a multizone trapping approach: spectrophotometric determination of boron in plants, 374 (1998) 53
- Spectrophotometry with liquid-core optical fibre in aqueous solution phase in the ultraviolet region, 375 (1998) 261
- Determination of metformin in pharmaceutical preparations using potentiometry, spectrofluorimetry and UV-visible spectrophotometry, 378 (1999) 299
- Disposable integrated cuvette test for quantitative determination of vitamin C in pharmaceutical products, 379 (1999) 69
- Spectrophotometric determination of nicotine, 379 (1999) 75
- Synthesis and analytical application of 2,6-dichloroarsenazo as a new chromogenic reagent for bismuth, 380 (1999) 101
- Challenges in providing standard reference materials for chemical and pharmaceutical process analysis, 380 (1999) 115
- Novel spectrophotometer for the measurement of color and appearance, 380 (1999) 243
- Simultaneous determination of nitrite and nitrate in various samples using flow injection with spectrophotometric detection, 382 (1999) 15
- Simple method for spectrophotometric determination of cationic surfactants without liquid-liquid extraction, 384 (1999) 215
- Comparative spectrophotometric study of the complexation and extraction of tellurium with various halide ions and N,N'-di(acetoxyethyl)indocarbocyanine, 386 (1999) 161
- Flow injection determination of chlorpromazine by inhibition of glutamate dehydrogenase, 387 (1999) 47
- Analysis of solid samples using supported liquid membranes: a method for the evaluation of the release of nicotine from Swedish snuff, 387 (1999) 155
- Application of internal standard for micro extraction-spectrophotometric determination of copper in serum and in natural waters, 387 (1999) 217
- Selective and sensitive spectrophotometric determination of total vanadium with hydrogen peroxide and 4-(2-pyridylazo)-resorcinol, 389 (1999) 275
- General equation for determining the dissociation constants of polyprotic acids and bases from additive properties. Part II. Applications, 390 (1999) 267
- Complex formation of the new reagent 5-(6-methoxy-2-benzothiazoleazo)-8-aminoquinoline with cobalt and nickel for their sensitive spectrophotometric detection, 391 (1999) 365
- Environmentally friendly analytical chemistry through automation: comparative study of strategies for carbaryl determination with *p*-aminophenol, 392 (1999) 265
- Determination of manganese in steel after extraction of dimethyldistearylammonium permanganate, 393 (1999) 223

- Photometric determination of boron in potassium dihydrogenphosphate by the reaction of boron-containing macrobicyclic iron(II) nioximate formation, 395 (1999) 213
- A novel method for the determination of protein utilizing 4-azochromotropic acid phenylfluorone-molybdenum(VI) complex, 396 (1999) 83
- A flow-batch titrator exploiting a one-dimensional optimisation algorithm for end point search, 396 (1999) 91
- Artificial neural networks and multivariate calibration for spectrophotometric differential kinetic determinations of food antioxidants, 396 (1999) 221
- Spectrophotometric determination of silicate in rain and aerosols by flow analysis, 396 (1999) 285
- Simultaneous enzymatic spectrophotometric determination of ethanol and methanol by use of artificial neural networks for calibration, 398 (1999) 83
- Evolution of the commutation concept associated with the development of flow analysis, 400 (1999) 249

## Spectrophotometry copper(II)

Novel preconcentration technique for trace metal ions by aggregate film formation. Spectrophotometric determination of copper(II), 364 (1998) 13

# Spectroscopic data

An automated procedure to predict the number of components in spectroscopic data, 379 (1999) 143

# Spectroscopy

- Advantages of a hierarchical system of neural-networks for the interpretation of infrared spectra in structure determination, 348 (1997) 255
- Spectroscopic prediction of nonlinear properties by principal component regression, 348 (1997) 345
- Improved variable selection procedure for multivariate linear regression, 354 (1997) 225
- Simultaneous determination of orthophosphate and arsenate based on multi-way spectroscopic-kinetic data evaluation, 354 (1997) 241
- A method for the determination of reaction mechanisms and rate constants from two-way spectroscopic data, 373 (1998) 83
- Simultaneous determination of orthophosphate and silicate in brackish water, 378 (1999) 183
- The absolute calibration of mid-infrared transmittance standards, 380 (1999) 127
- New compact Echelle spectrographs with multichannel timeresolved recording capabilities, 380 (1999) 353
- Interreflection errors in Fourier transform spectroscopy: a preliminary appraisal, 380 (1999) 369
- Calibration transfer as a data reconstruction problem, 384 (1999) 193
- Real time quantitation of a chemical reaction by fiber optic nearinfrared spectroscopy, 395 (1999) 335

## Spectrum calculation

IR quantitative analysis of organic mixtures without any calibration, 353 (1997) 105

## Spectrum normalization

Eigenstructure tracking analysis for assessment of peak purity in high-performance liquid chromatography with diode array detection, 314 (1995) 131

# Spectrum-like representation

Optimisation of structure representation for QSAR studies, 388 (1999) 243

## Spectrum-like structure representation

Study of structure-toxicity relationship by a counterpropagation neural network, 384 (1999) 319

## Spectrum-structure relationships

Linear and non-linear modelling techniques for the investigation of spectrum-structure relationships, 348 (1997) 471

### Spectrum-structure-correlation

Joined knowledge- and signal processing for infrared spectrum interpretation, 393 (1999) 193

## Spermidine

Atomic force microscopy of supercoiled DNA structure on mica, 365 (1998) 19

# Spermine

Atomic force microscopy of supercoiled DNA structure on mica, 365 (1998) 19

## SPFAC procedure

Continuous flow titration system for the generation of multivariate spectrophotometric data in the study of acid-base equilibria, 312 (1995) 189

# Spheron-Thiol

Spectrographic determination of gold in geological materials after preconcentration on Spheron-Thiol, 320 (1996) 145

# Spin trapping technique

Application of electrochemical and spin trapping techniques in the investigation of hydroxyl radicals, 389 (1999) 213

## Spinacl

A dual radiotracer speciation technique with emphasis on probing of artefacts: a case study for technetium and spinach (Spinacia oleracea L.), 394 (1999) 271

# Spirits

Standard additions in flow injection analysis based on merging zones and gradient exploitation: application to copper determination in spirits, 319 (1996) 153

# Spline approximation

On the evaluation of turnover frequencies in unicyclic homogeneous catalysis. Experimental, numerical, and statistical aspects, 374 (1998) 67

## Spline wavelet analysis

Spline wavelet analysis for voltammetric signals, 340 (1997) 115

## Spline wavelet basis

Spline wavelet analysis for voltammetric signals, 340 (1997) 115

## Spline-PLS

The Radial Basis Functions - Partial Least Squares approach as a flexible non-linear regression technique, 331 (1996) 177

# Split-plot design

Application of the split-plot experimental design for the optimization of a catalytic procedure for the determination of Cr(VI), 369 (1998) 269

## SPLITT fractionation

Separation of particulate environmental samples by SPLITT fractionation using different operating modes, 345 (1997) 99

## Splitting

Multicommutation in flow analysis. Part 4. Computer-assisted splitting for spectrophotometric determination of copper and zinc in plants, 332 (1996) 173

### SPME

Determination of polynuclear aromatic hydrocarbons in human blood serum by proteolytic digestion — direct immersion SPME, 396 (1999) 303

### SPME fibers

Determination of benzophenone-3 and metabolites in water and human urine by solid-phase microextraction and quadrupole ion trap GC-MS, 371 (1998) 195

## Spodoptera frugiperda

Development of enzyme-cartridge flow-injection analysis for industrial process monitoring. Part III. Application for monitoring of recombinant animal cell cultivations, 315 (1995) 153

# SPQC sensors

A rapid method for determination of Staphylococcus aureus based on milk coagulation by using a series piezoelectric quartz crystal sensor, 369 (1998) 139

A new method based on gelation of tachypleus amebocyte lysate for detection of *Escherichia coliform* using a series piezoelectric quartz crystal sensor, 374 (1998) 47

## (Sputtered-)platinum

Glucose detection at bare and sputtered platinum electrodes coated with polypyrrole and glucose oxidase, 335 (1996) 209

## Square wave

Partial least squares method in the analysis by square wave voltammetry. Simultaneous determination of sulphamethoxypyridazine and trimethoprim, 349 (1997) 303

Square-wave anodic stripping voltammetry of Zn(II) as a method for probing instabilities at a glassy carbon mercury film microelectrode, 357 (1997) 33

Electroanalytical study and square wave voltammetric techniques for the determination of β-blocker timolol at the mercury electrode, 389 (1999) 225

## Square-wave polarography

Determination of sulfide by square-wave polarography, 351 (1997) 115

## Square-wave voltammetry

On the suppression of zinc-copper interactions in square wave anodic stripping voltammetry in flowing solution by addition of gallium ions, 339 (1997) 167

Simultaneous determination of caffeine and acetaminophen in drug formulations by square-wave voltammetry using a chemically modified electrode, 342 (1997) 175

Determination of salmon calcitonin by square wave adsorptive stripping voltammetry, 351 (1997) 65

Determination of N-nitrosomorpholine using square wave voltammetry, 356 (1997) 239

Remote electrochemical sensor for monitoring TNT in natural waters, 361 (1998) 85

Capillary batch injection analysis: a novel approach for analyzing nanoliter samples, 362 (1998) 213

Characterisation of zinc metallothioneins by electroanalytical techniques, 385 (1999) 295

Characterisation of zinc metallothioneins by electroanalytical techniques, 385 (1999) 307

Voltammetry of compounds confined at the hanging mercury drop electrode surface, 385 (1999) 315

Square-wave voltammetry of a cathodic stripping reaction complicated by adsorption of the reacting ligand, 386 (1999) 47

Voltammetric determination of benzoylecgonine, 389 (1999) 219 A sensitive voltammetric method for the determination of parathion insecticide, 396 (1999) 39

### 90Sr

Microwave-assisted digestion of soils for the determination of <sup>90</sup>Sr, 355 (1997) 283

Microwave-assisted pre-treatment of environmental samples for the determination of 90Sr, 379 (1999) 135

## SSDH

Peroxidase based amperometric biosensors for the determination of γ-aminobutyric acid, 328 (1996) 41

## Stability

Stability of preplated mercury coated platinum and carbon fibre microelectrodes, 327 (1996) 211

Determination of five selenium compounds in urine by liquid chromatography with focused microwave assisted digestion and hydride generation—atomic absorption spectrometric detection, 374 (1998) 241

Estimation of lactate in meat extracts by screen-printed sensors, 386 (1999) 7

## Stability constants

Equilibrium dialysis-ligand exchange: adaptation of the method for determination of conditional stability constants of radionuclide-fulvic acid complexes, 303 (1995) 321

Determination of stability constants using genetic algorithms, 316 (1995) 347

Extraction of alkali metal, magnesium and calcium ions with cyclopentadienyltris(diethylphosphito-P) cobaltate(-1), 319 (1996) 271

Interaction of Hg(II) with soil-derived humic substances, 341 (1997)

- Second order global analysis: the evaluation of series of spectrophotometric titrations for improved determination of equilibrium constants, 353 (1997) 381
- Potentiometric study of the equilibria between triethylenetetraminehexaacetic acid and H(I), Mn(II), La(III) and Ga(III) in aqueous solution, 367 (1998) 261
- Electrochemical study of proton ionisation, copper(II) complexation and surfactant properties of piperazine-N-N'-bis[2-hydroxypropanesulfonic acid] pH buffer. Comparison with other N-substituted aminosulfonic acids pH buffers, 369 (1998) 115
- A differential pulse polarographic study of bismuth<sup>III</sup> complexes with macrocyclic ligands 1,4,7,10-tetraazacyclododecane and 1,4,7,10-tetrakis (2-hydroxypropyl)-1,4,7,10-tetraazacyclododecane. An out-of-cell determination of stability constants of polarographically active and inactive bismuth complexes at fixed ligand to metal ratio and various pH values, 372 (1998) 323
- Silica chemically modified with N-benzoyl-N-phenylhydroxylamine in chemisorption of hydrogen and metal ions, 379 (1999) 11
- Determination of stability constants of labile heterogeneous complexes using differential pulse polarography and anodic stripping voltammetry, 384 (1999) 17

## Stability-constant determination

Metal complexation model identification and the detection and elimination of erroneous points using evolving least-squares fitting of voltammetric data, 363 (1998) 261

### Stabilization

Stabilization of enzyme immunoassays for atrazine, 362 (1998) 35

# Stable isotope analysis

Improved detection of sugar addition to apple juices and concentrates using internal standard <sup>13</sup>C IRMS, 347 (1997) 359

## Stacking

A study of the effects of injection mode, on-capillary stacking and off-line concentration on the capillary electrophoresis limits of detection for four structural types of industrial dyes, 349 (1997) 221

## Standard addition method

- Standard additions in flow injection analysis based on merging zones and gradient exploitation: application to copper determination in spirits, 319 (1996) 153
- Determination of trace impurities in high-purity aluminium oxide by high resolution inductively coupled plasma mass spectrometry, 369 (1998) 79
- Standard addition method in FIA. Comparison between different assemblies, 379 (1999) 89

## Standard additions

- Standard additions in flow injection analysis with atomic absorption spectrometry, 357 (1997) 151
- Asymmetric distribution of results in calibration curve and standard addition evaluations, 357 (1997) 157

# Standard alloys and biological samples

Derivative UV-visible spectrophotometric determination of nickel in alloys and biological samples after preconcentration with the ion pair of 2-nitroso-1-naphthol-4-sulfonic acid and tetradecyldimethylbenzylammonium chloride onto microcrystalline naphthalene or by a column method, 367 (1998) 55

# Standard linear discriminant analysis (SLDA)

A new method based on counterpropagation network algorithm for chemical pattern recognition, 388 (1999) 161

# Standard reference materials

- Three pressurized mineralization procedures that permit subsequent flame atomic spectrometric determination of Ca, Fe, K, Mg and Zn in bovine blood plasma-containing cookies and in standard reference materials, 306 (1995) 139
- On-line ion exchange system coupled to inductively coupled plasma atomic emission spectrometer with ultrasonic nebulization for the separation, preconcentration and determination of arsenic(V) and monomethylarsonate, 313 (1995) 243
- NIST transmission density instrument, 380 (1999) 143

### Standard subtraction

Flow-injection/standard subtraction method for the determination of iron(III) based on its catalytic effect and inhibition of EDTA, 374 (1998) 303

### Standardization

- On mass spectrometer instrument standardization and interlaboratory calibration transfer using neural networks, 348 (1997) 511
- Modelling near infrared instrument differences by chemometric methods: testing for near infrared forage analysis, 355 (1997) 181

## Standards

- Instrumentation, standards, and procedures used at the National Research Council of Canada for high-accuracy fluorescence measurements, 380 (1999) 193
- Tests of an omnipresent standard for absolute spectral radiance measurements, 380 (1999) 311
- High-accuracy measurement of specular spectral reflectance and transmittance, 380 (1999) 317

## Stannic ions

Polarographic determination of Sn(II) in samples containing Sn(IV) such as in 99m-Technetium radiopharmaceutical kits, 332 (1996) 67

# Stannous ions

Polarographic determination of Sn(II) in samples containing Sn(IV) such as in 99m-Technetium radiopharmaceutical kits, 332 (1996) 67

## Staphylococcus epidermidis

Determination of microorganisms with a quartz crystal microbalance sensor, 319 (1996) 97

## Starch

A robotic-flow injection approach to the fully automated determination of starch in food, 333 (1996) 205

# Stationary phases

Stationary phases for peptide analysis by high performance liquid chromatography: a review, 352 (1997) 1 Temperature effect on the characteristic solute-solvent retention interactions, calculated with Abraham's solvation model, for 16 GLC stationary phases, 377 (1998) 71

Metallomesogens as stationary phases for the separation of phenols by gas chromatography, 384 (1999) 51

## Statistical analysis

Quantitative constituent measurements in scattering media from statistical analysis of photon time-of-flight distributions, 348 (1997) 543

## Statistical aspects

On the evaluation of turnover frequencies in unicyclic homogeneous catalysis. Experimental, numerical, and statistical aspects, 374 (1998) 67

## Statistical model of overlap

Verification of the extended statistical model of overlap: application to gas chromatograms containing variable peak densities, 302 (1995) 133

## Statistical moments

A low cost, open and flexible on-line data acquisition system for instrumental chromatography, 306 (1995) 285

## Statistics

A novel strategy for systematic optimization of micellar electrokinetic chromatography separations, 342 (1997) 133

Predicting chance infrared spectroscopic matching frequencies, 370 (1998) 181

## Steady-state signal

Evaluation of a predictive steady-state flow-injection method adapted to an open flow tube with a tracer, 303 (1995) 199

# Steam distillation

Possibilities of simple steam distillation in combination with capillary isotachophoresis for the determination of chlorophenols in river and industrial waste waters, 302 (1995) 39

## Steel samples

A micro-scale mercury cathode electrolysis procedure for on-line flow injection inductively coupled plasma mass spectrometry trace elements analysis in steel samples, 389 (1999) 247

## Steels

Determination of trace amounts of selenium and tellurium in nickelbased heat-resisting superalloys, steels and several metals by electrothermal atomic absorption spectrometry after reductive coprecipitation with palladium using ascorbic acid, 312 (1995) 157

Spectrophotometric determination of molybdenum in steel samples utilizing selective sorbent extraction on Amberlite XAD-8 resin, 322 (1996) 111

Spectrophotometric determination of cobalt by extraction of benzyltributylammonium tetrathiocyanatocobaltate(II), 355 (1997) 163

Rapid determination of sulfur in steel by electrolytic dissolution – inductively coupled plasma atomic emission spectrometry, 394 (1999) 293

## Step-by-step filter

Fourth derivative spectroscopy - a critical view, 349 (1997) 295

### Stepwise dissolution

Chemical speciation study of platinum group elements in geological samples by stepwise dissolution and inductively coupled plasma mass spectrometry, 374 (1998) 93

### Stepwise extraction

Stepwise extraction of two lead ions with a single molecule of calix[4]arene tetracarboxylic acid, 387 (1999) 61

## Stepwise multiple linear regression

Determination of paracetamol in intact tablets by use of near infrared transmittance spectroscopy, 383 (1999) 283

## Stepwise polynomial PLS

Calibration in non-linear near infrared reflectance spectroscopy: a comparison of several methods, 384 (1999) 207

## Stepwise regression

Relevant physicochemical factors in chromatographic separation of Alternaria alternata mycotoxins, 370 (1998) 79

# Stepwise regression analysis

A factor analysis approach to the study of the eutrophication of a shallow, temperate lake (San Daniele, North Eastern Italy), 306 (1995) 99

Use of spectral mapping technique for the separation of solvent strength and selectivity on β-cyclodextrin polymer-coated HPLC column using monoamine oxidase inhibitory drugs as solutes, 348 (1997) 197

## Stereoisomers

MOLGEN\*, a generator of connectivity isomers and stereoisomers for molecular structure elucidation, 314 (1995) 141

Separation of stereoisomers of C<sub>27</sub>-bile acid CoA esters by liquid chromatography and its application to the study of the stereospecificities of D- and L-bifunctional proteins in bile acid biosynthesis, 365 (1998) 249

## Stern-Volmer constant

Novel method of detecting mismatch on DNA by using photoinduced electron transfer through DNA, 365 (1998) 49

## Steroids

Modelling and optimization of the separation of steroids eluted with a micellar mobile phase of sodium dodecyl sulphate containing acetonitrile, 333 (1996) 31

Inaccuracy of the Bradford method for the determination of protein concentration in steroid-horseradish peroxidase conjugates, 337 (1997) 93

## Sterol

Simultaneous determination of sterols in edible oils by use of a continuous separation module coupled to a gas chromatograph, 308 (1995) 253

Authentication of green coffee varieties according to their sterolic profile, 370 (1998) 131

# Stimulated Raman scattering

Development of a vacuum ultraviolet laser source and its application to the evaluation of phosphor materials for a plasma display panel, 389 (1999) 69

### STM

DNA-modified electrodes Part 3.: spectroscopic characterization of DNA-modified gold electrodes, 388 (1999) 93

### Stoichiometry

Stoichiometry of superconducting YBa<sub>2</sub>Cu<sub>3</sub>O<sub>y</sub> A comparison of methods for the determination of the Cu(I):Cu(II) ratio, 304 (1995) 223

Stepwise extraction of two lead ions with a single molecule of calix[4]arene tetracarboxylic acid, 387 (1999) 61

Determination of formal complex formation constants of various Pb<sup>2+</sup> ionophores in the sensor membrane phase, 395 (1999) 41

### Stop flow analysis

A highly sensitive amperometric creatinine sensor, 351 (1997) 151

## Stopped flow

Synergetic catalytic effect of molybdate and tungstate on the hydrogen peroxide-iodide system and its analytical applications, 303 (1995) 241

Kinetic determination of bromadiolone based on lanthanide-sensitized luminescence, 355 (1997) 145

Determination of corproporphyrin in urine by using stopped-flow fluoroimmunoassay, 361 (1998) 27

Determination of V(V) by a kinetic stopped-flow FIA method with spectrophotometric detection, 366 (1998) 287

Reaction rate method for determination of nitrite by applying a stopped-flow technique, 376 (1998) 331

Kinetic determination of ansamicins in pharmaceutical formulations and human urine. Manual and semiautomatic (stopped-flow) procedures, 376 (1998) 365

Continuous, pulsed and stopped flow in a μ-flow injection system (numerical vs experimental), 378 (1999) 111

Pesticide determination by stopped-flow fluoroimmunoassay using Cresyl Violet as label, 381 (1999) 147

## Stopped flow analysis

Rapid determination of chemical oxygen demand by a semi-automated method based on microwave sample digestion, chromium(VI) organic solvent extraction and flame atomic absorption spectrometry, 372 (1998) 399

Flow-injection and stopped-flow completely continuous flow spectrophotometric determinations of aniline and cyclohexylamine, 396 (1999) 151

# Stopped-flow mixing

Kinetic determination of salicylic acid, diflunisal and their mixture based on lanthanide-sensitized luminescence, 329 (1996) 135

## Stopped-flow technique

Individual and joint stopped flow kinetic spectrofluorimetric determination of neomycin and tyrothricin, 303 (1995) 31

Stopped flow kinetic determination of nalidixic acid and norfloxacin based on lanthanide-sensitized fluorescence, 303 (1995) 39 Simultaneous kinetic determination of butylated hydroxyanisole and propyl gallate by coupling stopped-flow mixing technique and diode-array detection, 354 (1997) 173

## Storage

Analysis and storage of samples for chromium determination in seawater, 356 (1997) 35

Procedures for the storage and digestion of natural waters for the determination of filterable reactive phosphorus, total filterable phosphorus and total phosphorus, 375 (1998) 5

## Strain improvement programmes

Diffuse reflectance absorbance spectroscopy taking in chemometrics (DRASTIC). A hyperspectral FT-IR-based approach to rapid screening for metabolite overproduction, 348 (1997) 273

### Strategy

Strategies for analysis of electrophoretically separated proteins and peptides, 383 (1999) 27

### Strategy of solution

Expert systems as a tool for the molecular structure elucidation by spectral methods. Strategies of solution to the problems, 348 (1997) 443

## (Strept)avidin

Biotinylated and streptavidinylated liposomes as labels in cytokine immunoassays, 306 (1995) 333

# Streptomyces

Chemical characterization by pyrolysis/gas chromatography/mass spectrometry of acid-precipitable polymeric lignin (APPL) from wheat straw transformed by selected streptomyces strains, 345 (1997) 121

## Stress

Physical stimuli and emotional stress-induced sweat secretions in the human palm and forehead, 365 (1998) 319

## Stress proteins

Improved quantification of stress proteins by western blotting, 311 (1995) 109

# s-Triazine herbicides

Hapten design for compound-selective antibodies: ELISAS for environmentally deleterious small molecules, 376 (1998) 83

## Stripping

Disposable thick film modified graphite electrodes for stripping voltammetry, 349 (1997) 85

A PVC-graphite composite electrode for electroanalytical use. Preparation and some applications, 355 (1997) 23

# Stripping analysis

Mercury nucleation on glassy carbon electrodes, 346 (1997) 157 Limitations of the use of the electrochemical quartz crystal microbalance in stripping analysis of lead(II) and cadmium(II) on a quartz crystal platinum electrode with a thin mercury film, 368 (1998) 191 A field-deployable instrument for the measurement and speciation of arsenic in potable water, 380 (1999) 27

Stripping analysis into the 21st century: faster, smaller, cheaper, simpler and better, 385 (1999) 429

## Stripping of silver electroless deposition

Extraction of silver by polypyrrole films upon a base-acid treatment, 364 (1998) 41

## Stripping potentiometry

Determination of tin in canned fruit juices by stripping potentiometry, 333 (1996) 115

Influence of Triton X-100 in stripping potentiometry, 333 (1996) 233

Determination of lead and cadmium in whole blood of mothers and their babies, 353 (1997) 307

Hot-wire stripping potentiometric measurements of trace mercury, 396 (1999) 33

## Stripping voltammetry

A versatile macro- to micro-size stationary mercury drop electrode, 302 (1995) 1

Potentiometric stripping analysis vs. differential pulse anodic stripping voltammetry for copper(II) analysis at relatively positive deposition potential, 303 (1995) 255

Study of the reduction mechanism and the adsorption properties of uranium(VI)-cupferron complexes using various electrochemical techniques, 304 (1995) 177

Theory and application of chemically modified carbon paste electrode to copper speciation determination, 305 (1995) 42

Determination of phenylephrine with a modified carbon paste electrode, 305 (1995) 83

Sensors and sample preparation in stripping voltammetry, 305 (1995) 146

Direct determination of uranium traces by adsorptive stripping voltammetry, 305 (1995) 154

Digital filtering in stripping analysis, 305 (1995) 165

Determination of traces of copper by anodic stripping voltammetry after its preconcentration via an ion-exchange route at carbon paste electrodes modified with vermiculite, 305 (1995) 176

Determination of copper, cadmium, iron, manganese, nickel and zinc in Antarctic sea water. Comparison of electrochemical and spectroscopic procedures, 305 (1995) 200

Analysis of arsenic(V) by cathodic stripping voltammetry, 306 (1995) 217

Determination of germanium(IV) by catalytic cathodic stripping voltammetry, 309 (1995) 89

Determination of sub-nanomolar concentrations of lead in sea water by adsorptive stripping voltammetry with xylenol orange, 309 (1995) 95

Voltammetry of Pb(II), Cd(II) and Zn(II) ions in the presence of the sulphated polysaccharide λ-carrageenan, 310 (1995) 121

Pseudopolarographic determination of stability constants of labile zinc complexes in fresh water, 310 (1995) 131

Effect of model organic compounds on square-wave voltammetric stripping analysis at the Nafion/chelating agent mercury film electrodes, 310 (1995) 407 On-line determination of vanadium by adsorptive stripping voltammetry, 312 (1995) 15

Application of potentiometric stripping analysis for speciation of copper complexes with adsorbable ligands on the mercury electrode, 314 (1995) 241

Direct determination of trace concentrations of lead in fresh water samples by adsorptive cathodic stripping voltammetry of a lead-Calcein Blue complex, 316 (1995) 363

Anodic stripping voltammetric determination of total lead in anencephalic fetuses after pressure/temperature-controlled microwave mineralization, 317 (1995) 311

Stripping voltammetry of heavy metal/polyelectrolyte complexes Part 2. Analysis in terms of polyelectrolyte theory, 317 (1995) 327

Remote electrochemical monitoring of trace silver, 318 (1996) 151
Direct determination of ultratraces of thallium in water by flow-injection-differential-pulse anodic stripping voltammetry, 318 (1996) 159

Wiener filtering of electroanalytical data by means of fast Fourier transform, 319 (1996) 3

Determination of phytochelatins by cathodic stripping voltammetry in the presence of copper(II), 319 (1996) 13

Determination of tin traces in water samples by adsorptive stripping voltammetry, 319 (1996) 19

Determination of mercury by open circuit adsorption stripping voltammetry on a platinum disk electrode, 319 (1996) 25

Rapid determination of copper, lead and cadmium in unpurged seawater by adsorptive stripping voltammetry, 320 (1996) 19

Preconcentration at a carbon-paste electrode and determination by adsorptive-stripping voltammetry of rutin and other flavonoids, 320 (1996) 255

Determination of selenium speciation in river waters by adsorption on iron(III)-Chelex-100 resin and differential pulse cathodic stripping voltammetry, 321 (1996) 185

UV-visible spectrophotometric, adsorptive stripping voltammetric and capillary electrophoretic study of 2-(5'-bromo-2'-pyridylazo)-5-diethylaminophenol and its chelates with selected metal ions: application to the determination of Co(III) in vitamin B<sub>12</sub>, 323 (1996) 97

Stripping voltammetry at preplated mercury coated microelectrodes in flowing solutions, 325 (1996) 11

Determination of sub-nanomolar concentration of arsenic(III) in natural waters by square wave cathodic stripping voltammetry, 325 (1996) 25

Direct stripping voltammetric method for the determination of small concentrations of one component in binary alloys, 327 (1996) 107

Adsorptive stripping voltammetric behaviour of hypoxanthine, 328 (1996) 47

Study of the adsorptive stripping voltammetric behaviour of the antihypertensive drug Doxazosin, 329 (1996) 25

Mercury-plated iridium-based microelectrode arrays for trace metals detection by voltammetry: optimum conditions and reliability, 329 (1996) 203

Determination of mebendazole in urine by cathodic stripping voltammetry, 331 (1996) 111

Mercury thread electrode in a flow cell, 332 (1996) 165

- Catalytic stripping voltammetry of vanadium in the presence of dihydroxynaphthalene and bromate, 333 (1996) 131
- Simultaneous determination of several trace metals in seawater using cathodic stripping voltammetry with mixed ligands, 337 (1997) 29
- A new mercury drop electrode for trace metal analysis, 339 (1997) 147
- Substituted catechols as complexing agents for the determination of bismuth, lead, copper and cadmium by adsorptive stripping voltammetry, 344 (1997) 87
- Possibilities for the automated determination of trace concentrations of uranium in water samples by adsorptive stripping voltammetry, 349 (1997) 93
- Partial least squares method in the analysis by square wave voltammetry. Simultaneous determination of sulphamethoxypyridazine and trimethoprim, 349 (1997) 303
- Determination of salmon calcitonin by square wave adsorptive stripping voltammetry, 351 (1997) 65
- Voltammetric behaviour of the antimycotic terbinafine at the hanging mercury drop electrode, 351 (1997) 97
- Application of stripping voltammetry at a static mercury drop electrode for the determination of aluminium and iron in Portland cement, 353 (1997) 313
- Square-wave anodic stripping voltammetry of Zn(II) as a method for probing instabilities at a glassy carbon mercury film microelectrode, 357 (1997) 33
- Differential pulse anodic stripping voltammetric determination of copper(II) with N-phenylcinnamohydroxamic acid modified carbon paste electrodes, 368 (1998) 165
- Determination of traces of arsenic(III) by anodic stripping voltammetry in solutions, natural waters and biological material, 368 (1998) 211
- PAN-incorporated Nafion-modified spectroscopic graphite electrodes for voltammetric stripping determination of lead, 369 (1998)
- Stripping voltammetric determination of mercury at modified solid electrodes. I. Development of the modified electrodes, 371 (1998) 145
- Qualitative and quantitative aspects of the application of genetic algorithm-based variable selection in polarography and stripping voltammetry, 378 (1999) 245
- Voltammetry of compounds confined at the hanging mercury drop electrode surface, 385 (1999) 315
- Adsorptive cathodic stripping voltammetric determination of gold(III) in the presence of yeast mannan, 385 (1999) 393
- Stripping voltammetric determination of mercury at modified solid electrodes. Determination of mercury traces using PDC/Au(III) modified electrodes, 396 (1999) 195

# Stripping voltammetry of mitomycin C

Voltammetric determination of mitomycin C in the presence of other anti-cancer drugs and in urine, 358 (1998) 45

## Strong zwitterionic surfactant

Separation of nucleosides and their bases by reversed-phase liquid chromatography using pure water as the mobile phase, 353 (1997) 143

### Strontium

- Accurate determination of <sup>87</sup>Rb/<sup>86</sup>Sr and <sup>147</sup>Sm/<sup>144</sup>Nd ratios by inductively-coupled-plasma mass spectrometry in isotope geoscience: an alternative to isotope dilution analysis, 358 (1998) 227
- Performance characteristics for the measurement of Cs and Sr by diffusive gradients in thin films (DGT), 368 (1998) 243

## Strontium-90

Possibility of rapid determination of low-level <sup>90</sup>Sr activity by combination of extraction chromatography separation and Cherenkov counting, 399 (1999) 237

## Structural similarity

Which IR search system is better for selection of unknown structure analogues?, 396 (1999) 99

### Structural subunits

- Multi-method characterization of lake aquatic humic matter isolated with two different sorbing solids, 363 (1998) 235
- Multimethod characterization of lake aquatic humic matter isolated with sorbing solid and tangential membrane filtration, 364 (1998) 203
- Characterization of lake-aquatic humic matter isolated with two different sorbing solid techniques: pyrolysis electron impact mass spectrometry, 391 (1999) 331

## Structure elucidation

- Gradient elution liquid chromatography-infrared spectrometry at μg I<sup>-1</sup> level using capillary column switching and addition of a make-up liquid. A preliminary study, 342 (1997) 151
- Advantages of a hierarchical system of neural-networks for the interpretation of infrared spectra in structure determination, 348 (1997) 255
- Expert systems as a tool for the molecular structure elucidation by spectral methods. Strategies of solution to the problems, 348 (1997) 443

# Structure optimisation

The quality of optimisation by genetic algorithms, 388 (1999) 265

## Structure representation

General type of a uniform and reversible representation of chemical structures, 348 (1997) 409

## Structure similarity

Computer-assisted IR spectra prediction – linked similarity searches for structures and spectra, 348 (1997) 327

# Structure-GC-retention relationships

Selection of molecular descriptors used in quantitative structure—gas chromatographic retention relationships II. Isoalkanes and alkenes, 323 (1996) 15

# Structure-property model

The neural network MolNet prediction of alkane enthalpies, 384 (1999) 271

# Structure-property relationships

Structure-property relationship between half-wave potentials of organic compounds and their topology, 316 (1995) 39

## **Sub-boiling distillation**

Improved technique for the routine determination of tritiated water in aqueous samples, 382 (1999) 225

### Subcritical water

An approach for monitoring subcritical water extraction kinetics of fluorescent analytes, 342 (1997) 215

### Submersible sensor

A submersible flow injection-based sensor for the determination of total oxidised nitrogen in coastal waters, 361 (1998) 63

### Substituent and solvent effects

Application of semiempirical method (AM1) to the study of tautomeric equilibria in the gas phase for simple compounds containing the amidine group: 4(5)-substituted imidazoles, 348 (1997) 431

## 4(5)-Substituted imidazoles and their N-methyl derivatives

Application of semiempirical method (AM1) to the study of tautomeric equilibria in the gas phase for simple compounds containing the amidine group: 4(5)-substituted imidazoles, 348 (1997) 431

## Substituted metalloporphyrins

Substituted metalloporphyrin derivatives as anion carrier for PVC membrane electrodes, 302 (1995) 263

### Substituted phenolate

Conjugation and proton exchange equilibria: an electrometric method for determination of heteroconjugation constants in solvents of weak proton donating and weak proton accepting properties, 384 (1999) 27

## Substituted phenols

Optimization of liquid chromatographic parameters for the separation of priority phenols by using mixed-level orthogonal array design, 312 (1995) 271

# Substrate recycling

Determination of p-aminophenol and catecholamines at picomolar concentrations based on recycling enzyme amplification, 304 (1995) 25

Highly sensitive electrochemical determination of Escherichia coli density using tyrosinase-based chemically amplified biosensor, 357 (1997) 51

## Substrate selectivity

Binding study on 5,5-diphenylhydantoin imprinted polymer constructed by utilizing an amide functional group, 394 (1999) 353

## Substructure

Simulation of infrared spectra using artificial neural networks based on semiempirical and empirical data, 331 (1996) 63

## Substructure classification

Automatic classification of infrared spectra using a set of improved expert-based features, 388 (1999) 145

## Subunit

Electrophoretic methods for the isolation and characterization of enzymes, 383 (1999) 109

### Sucrose

Determination of sucrose using sucrose phosphorylase in a flowinjection system, 337 (1997) 107

PLS-NIR determination of total sugar, glucose, fructose and sucrose in aqueous solutions of fruit juices, 344 (1997) 41

Dual electrode signal-subtracted biosensor for simultaneous flow injection determination of sucrose and glucose, 380 (1999) 7

## Sucrose phosphorylase

Determination of sucrose using sucrose phosphorylase in a flowinjection system, 337 (1997) 107

## Sudden infant death syndrome

Correlation of the antimony concentration of umbilical cord and infant hair measured by hydride generation-atomic fluorescence spectrometry, 354 (1997) 1

## Sugar beet

Thermospray and electrospray mass spectrometry of flavocoenzymes. Analysis of riboflavin sulphates from sugar beet, 302 (1995) 215

## Sugar glasses

Solid-matrix luminescence in glucose and trehalose glasses with heavy-atom salts, 332 (1996) 299

## Sugar variant

Intelligent peptide-mapping method for recombinant human tissuetype plasminogen activator by lysyl-endopeptidase digestion, 365 (1998) 241

## Sugarcane

Separation of soluble glycoproteins from sugarcane juice by capillary electrophoresis, 372 (1998) 201

## Sugars

Construction and use of a tubular picrate ion-selective electrode for reducing sugar determination in Port wine by flow-injection analysis, 308 (1995) 122

Flow injection amperometric determination of glucose and some other low molecular weight saccharides based on oligosaccharide dehydrogenase mediated by benzoquinone systems, 310 (1995) 161

On-line and off-line monitoring of the production of alkaline serine protease by Bacillus licheniformis, 317 (1995) 247

Simultaneous determination of sugars and organic acids by coelectroosmotic capillary electrophoresis with amperometric detection at a disk-shaped copper electrode, 371 (1998) 81

# Sugars and malic acid

Improved detection of sugar addition to apple juices and concentrates using internal standard <sup>13</sup>C IRMS, 347 (1997) 359

## Sulfadiazine

Continuous-flow spectrophotometric determination of sulfadiazine by diazotisation with in situ preparation of nitrite, 308 (1995) 451

Quantitative analysis of sulfadiazine using photochemically induced fluorescence detection in bulk solution and in a flow injection system, 314 (1995) 45

### Sulfamethoxazole

Binding of sulfamethoxazole to human serum albumin studied by a combined technique of microdialysis with liquid chromatography, 342 (1997) 159

Determination of multicomponent dissolution profiles of pharmaceutical products by in situ fiber-optic UV measurements, 345 (1997) 155

### Sulfanilamide

Spectrophotometric determination of nitrate and nitrite in soil and water samples with a diazotizable aromatic amine and coupling agent using column preconcentration on naphthalene supported with ion-pair of tetradecyldimethylbenzylammonium and iodide, 350 (1997) 295

## Sulfapyridine

Spectrophotometric determination of nitrate and nitrite in soil and water samples with a diazotizable aromatic amine and coupling agent using column preconcentration on naphthalene supported with ion-pair of tetradecyldimethylbenzylammonium and iodide, 350 (1997) 295

### Sulfate

A liquid drop: A windowless optical cell and a reactor without walls for flow injection analysis, 326 (1996) 13

Alternative indirect method for sulfate determination in natural samples, 329 (1996) 197

Determination of sulfate in brackish waters by laser Raman spectroscopy, 344 (1997) 153

Sulfate sensor using Thiobacillus ferrooxidans, 347 (1997) 275

Sulfate-selective PVC membrane electrodes based on a derivative of imidazole as a neutral carrier, 382 (1999) 165

# Sulfate selectivity

Application of a bis-thiourea ionophore for an anion selective electrode with a remarkable sulfate selectivity, 358 (1998) 35

## Sulfathiazole

Spectrophotometric determination of nitrate and nitrite in soil and water samples with a diazotizable aromatic amine and coupling agent using column preconcentration on naphthalene supported with ion-pair of tetradecyldimethylbenzylammonium and iodide, 350 (1997) 295

## Sulfide

Sensitivity enhancement of the methylene blue catalytic-spectrophotometric method of selenium(IV) determination by CTAB, 335 (1996) 155

Determination of sulfide by square-wave polarography, 351 (1997) 115

# Sulfide intereference

On-line determination of cyanide in the presence of sulfide by flow injection with pervaporation, 390 (1999) 133

## Sulfite

New enzyme sensor for sulfite analysis in sea and river water samples, 305 (1995) 32 Sulfite oxidation at a platinum glassy carbon electrode. Determination of sulfite by ion exclusion chromatography with amperometric detection, 311 (1995) 199

A coulometer for determination of residual sulfite following the dechlorination of water, 332 (1996) 155

Flow injection spectrophotometric determination of sulfite using a crude extract of sweet potato root (*Ipomoea batatas* (L.) Lam.) as a source of polyphenol oxidase, 354 (1997) 51

Investigation of a new reaction for the determination of microquantities of sulfite in some inorganic salts, 357 (1997) 239

Reagentless chemiluminescence flow sensor for sulfite, 361 (1998)

Optical sensing of sulfite with a phosphorescent probe, 374 (1998) 1 Chemiluminescence of sulfite based on auto-oxidation sensitized by rhodamine 6G, 391 (1999) 95

## Sulfite oxidase

A novel biosensor system for cyanide based on a chemiluminescence reaction, 329 (1996) 111

## Sulfite/hydrogen sulfite measurements

Novel response mechanism and application of sulfite sensitive polymeric membrane electrode based on dithiocarbamate complexes of mercury(II), 310 (1995) 211

## Sulfonamides

Simultaneous determination of sulfadiazine, doxycycline, furaltadone and trimethoprim by partial least squares multivariate calibration, 313 (1995) 103

Temperature and pressure effects on the supercritical fluid extraction profiles of sulfonamides from a spiked matrix using CHF<sub>3</sub> and CO<sub>2</sub>, 341 (1997) 285

Electroanalytical study of salazosulfapyridine and biseptol components at the mercury electrode, 353 (1997) 61

## Sulfonazo III

Study on the interaction of protein with Sulfonazo III by Rayleigh light scattering technique and its application, 398 (1999) 319

# Sulfonylurea herbicides

Sensitive and rapid flow injection analysis of sulfonylurea herbicides in water with micellar-enhanced photochemically induced fluorescence detection, 392 (1999) 255

## Sulfosalicylic acid

Novel preconcentration technique for trace metal ions by aggregate film formation. Spectrophotometric determination of copper(II), 364 (1998) 13

## Sulfoxide

Oxidation and reduction of thymosin β<sub>4</sub> and its influence on the interaction with G-actin studied by reverse-phase HPLC and post-column derivatization with fluorescamine, 352 (1997) 249

## Sulfur

An automated instrument for the analysis of atmospheric dimethyl sulfide and carbon disulfide, 306 (1995) 259

Determination of volatile sulfur compounds in water samples, beer and coffee with purge and trap gas chromatography-microwaveinduced plasma atomic emission spectrometry, 316 (1995) 93

### Sulfur dioxide

Optical sensing of sulfite with a phosphorescent probe, 374 (1998) 1

### Sulfur dioxide in wines

Determination of sulfur dioxide in wines by gas-diffusion flow injection analysis utilizing modified electrodes with electrostatically assembled films of tetraruthenated porphyrin, 387 (1999) 175

## Sulfuric acid

Determination of sulfuric acid in metallurgical process streams by discontinuous flow analysis, 308 (1995) 197

Selective determination of sulfuric acid in liquors from acidic nickel ore extraction by flow injection analysis, 328 (1996) 61

## Sulfuric acid decomposition

Determination of trace impurities in high-purity aluminium oxide by high resolution inductively coupled plasma mass spectrometry, 369 (1998) 79

## Sulphadiazine

Separation and determination of the active ingredients in tablets of composite sulphonamides by capillary zone electrophoresis with amperometric detection, 386 (1999) 265

## Sulphamethazine

Separation and determination of the active ingredients in tablets of composite sulphonamides by capillary zone electrophoresis with amperometric detection, 386 (1999) 265

# Sulphamethoxypyridazine

Partial least squares method in the analysis by square wave voltammetry. Simultaneous determination of sulphamethoxypyridazine and trimethoprim, 349 (1997) 303

## Sulphate

Crystal seeding in flow-injection turbidimetry: determination of total sulfur in plants, 308 (1995) 269

Determination of sulphate in natural waters and industrial effluents by sequential injection analysis, 331 (1996) 271

## Sulphate determination

Multicommutation in flow analysis. Part 6. Binary sampling for wide concentration range turbidimetric determination of sulphate in plant digests, 366 (1998) 251

## Sulphatrim

Combination of flow injection with capillary electrophoresis. Part 4.

Automated multicomponent monitoring of drug dissolution, 376
(1998) 209

## Sulphide

Proposal for a metal speciation study in sediments, 309 (1995) 387 Selective determination of gas dialysable components in complex sample solutions using triangle programmed coulometric titration in continuous flow systems, 324 (1996) 115

Determination of noble metals in sulphide inclusions from diamonds using inductively coupled plasma-mass spectrometry, 333 (1996) 41

Determination of sulphide in effluent streams using a solid-phase lead(II) chromate reactor incorporated into a flow-injection system, 369 (1998) 157

Voltammetric characterization of a dissolved iron sulphide species by laboratory and field studies, 377 (1998) 193

### Sulphide electrode materials

Determination of microgram amounts of free sulphur in transition metal sulphides using solvent extraction and molecular emission cavity analysis, 327 (1996) 139

## Sulphide ores

Determination of germanium(IV) in sulphide ores by differential pulse polarography in pyrogallol-sulfuric acid media, 306 (1995) 243

# Sulphide podand

Selective up-hill transport of gold to iodide stripping solution through a solvent modified liquid membrane containing a polysulphide podand as carrier, 327 (1996) 175

## Sulphide-selective optode membranes

Development of sulphide-selective optode membranes based on fluorescence quenching, 344 (1997) 105

## Sulphite

Automatic continuous-flow determination of sulphite in the presence of a high concentration of thiosulphate, 302 (1995) 269

Development of an optical flow-through biosensor for the determination of sulphite in environmental samples, 311 (1995) 281

Flow-injection analysis with chemiluminescent detection of sulphite using Na<sub>2</sub>CO<sub>3</sub>-NaHCO<sub>3</sub>-Cu<sup>2+</sup> system, 323 (1996) 69

Determination of sulphite in wines by gas-diffusion flow injection analysis utilizing spectrophotometric pH-detection, 337 (1997) 125

## Sulphite determination

Flow injection sandwich technique applied to indirect visible spectrophotometric determinations. Bromimetric and iodimetric determination of sulphite, 318 (1995) 55

## Sulphite oxidase

Electroimmobilisation of sulphite oxidase into a polypyrrole film and its utilisation for flow amperometric detection of sulphite, 332 (1996) 145

Immobilisation of enzyme throughout a polytyramine matrix: a versatile procedure for fabricating biosensors, 394 (1999) 211

## Sulphonamide

Separation and determination of the active ingredients in tablets of composite sulphonamides by capillary zone electrophoresis with amperometric detection, 386 (1999) 265

## Sulphone and sulphonic acid

Study on S<sub>2</sub> emission response from sulphones and sulphonic acids in molecular emission cavity analysis, 315 (1995) 371

# Sulphonium compounds

Flow injection system with flame photometric detection for the measurement of the dimethylsulphide precursor β-dimethylsulphoniopropionate, 377 (1998) 95

## Sulphorhodamine 101

Liquid chromatographic determination of cyclosporin A using aryl oxalate chemiluminescence detection, 303 (1995) 333

### Sulphur

Study on the vaporisation of sulphur-containing amino acids in a hydrogen flame by use of molecular emission cavity analysis and liquid chromatography, 309 (1995) 163

### Sulphur analysis

Potentiometric determination of sulphur in solid samples with a sulphide selective electrode, 380 (1999) 39

## Sulphur determination

Sulphur group analysis in solid matrices by atmospheric pressuretemperature programmed reduction, 395 (1999) 143

### Sulphur dioxide

Determination of sulphite in wines by gas-diffusion flow injection analysis utilizing spectrophotometric pH-detection, 337 (1997) 125

Development of a passive sampling technique for the determination of nitrogen dioxide and sulphur dioxide in ambient air, 346 (1997) 127

### Sulphur emission

Study on S<sub>2</sub> emission response from sulphones and sulphonic acids in molecular emission cavity analysis, 315 (1995) 371

## Sulphur-containing amino acids

The continuous-addition-of-reagent technique as an effective tool for enhancing kinetic-based multicomponent determinations using computational neural networks, 389 (1999) 131

# Sulphuric acid

Calibration methods for determination of ammonium and excess acid in Kjeldahl digests by flow injection analysis, 343 (1997) 183

## Sum-frequency generation

Conformational aspects of model chromatographic surfaces studied by sum-frequency generation, 397 (1999) 81

## Sun protection factor (spf)

In vitro measurement of sun protection factor of sunscreens by diffuse transmittance, 380 (1999) 155

## Sunflower oil

A poly(vinyl choloride) graphite composite electrode for flowinjection amperometric determination of antioxidants, 395 (1999) 217

## Supercoiled DNA

Supercoiled DNA-modified mercury electrode: A highly sensitive tool for the detection of DNA damage, 342 (1997) 1

Atomic force microscopy of supercoiled DNA structure on mica, 365 (1998) 19

## Supercoiling

Intercalation-induced changes in DNA supercoiling observed in real-time by atomic force microscopy, 400 (1999) 27

## Superconductor oxides

Analysis of superconductor oxides YBa<sub>2</sub>Cu<sub>3</sub>O<sub>8-x</sub> by inductively coupled plasma atomic emission spectrometry and complexometric titration, 330 (1996) 259

## Superconductors

Stoichiometry of superconducting YBa<sub>2</sub>Cu<sub>3</sub>O<sub>y</sub> A comparison of methods for the determination of the Cu(I):Cu(II) ratio, 304 (1995) 223

Polarographic determination of yttrium based on reduction of its solochrome violet RS complexApplication to the analysis of the superconductor YBa<sub>2</sub>Cu<sub>3</sub>O<sub>3</sub>, 341 (1997) 91

# Supercritical CO<sub>2</sub> extraction

Determination of N-methylcarbamate pesticides from spiked matrices using supercritical fluid extraction, 389 (1999) 53

## Supercritical fluid chromatography

Supercritical fluid chromatography and extraction of Fe(III) with hydroxamic acids, 346 (1997) 93

Prediction of retention behavior of ferrocene derivatives in supercritical fluid chromatography, 349 (1997) 239

Separation and estimation of five imidazoles by packed column supercritical fluid chromatography, 362 (1998) 271

Simultaneous estimation of nalidixic acid and metronidazole in dosage forms using packed column supercritical fluid chromatography, 376 (1998) 221

Supercritical fluid chromatographic method using phenyl packed column for determination of phenobarbitone and phenytoin sodium in dosage form, 384 (1999) 143

## Supercritical fluid extraction

Supercritical fluid extraction of butyltin compounds from sediment, 304 (1995) 85

Rapid determination of uranium on solid matrices by synergistic in situ chelation supercritical fluid extraction and UV absorption spectroscopy, 304 (1995) 203

Mass spectrometric analysis of additives in polymer extracts by desorption chemical ionization and collisional induced dissociation with B/E linked scanning, 311 (1995) 153

Effects of analyte-matrix interactions on supercritical fluid extraction efficiencies of polycyclic aromatic hydrocarbons, 342 (1997) 41

Supercritical fluid extraction of cobalt with fluorinated and non-fluorinated β-diketones, 346 (1997) 73

Combined experimental design and information theory for the optimization of supercritical fluid extraction of organic priority pollutants from sediment, 351 (1997) 377

Supercritical fluid extraction of priority organotin contaminants from biological matrices, 355 (1997) 269

Reverse-micelle formation: a strategy for enhancing CO<sub>2</sub>-supercritical fluid extraction of polar analytes, 358 (1998) 1

Illustration of important mechanisms controlling mass transfer in supercritical fluid extraction, 368 (1998) 117

Determination of parabens in cosmetic products by supercritical fluid extraction and capillary zone electrophoresis, 377 (1998) 85

Monitoring supercritical fluid extraction by thermal lens spectrometry with pulsed laser excitation, 390 (1999) 163 Supercritical fluid extraction for selective extraction of enantiomers, 391 (1999) 253

## Supercritical fluids

Temperature and pressure effects on the supercritical fluid extraction profiles of sulfonamides from a spiked matrix using CHF<sub>3</sub> and CO<sub>2</sub>, 341 (1997) 285

Supercritical fluid extraction of michellamines A and B from ancistrocladus korupensis leaves, 347 (1997) 305

Supercritical fluid extraction of mercury(II) ion via in situ chelation and pre-formed mercury complexes from different matrices, 379 (1999) 1

### Superoxide

Simultaneous superoxide and hydrogen peroxide detection in peroxidase/NADH oscillator, 354 (1997) 315

Preparation and optimization of superoxide microbiosensor, 358 (1998) 27

Highly sensitive chemiluminescence flow-injection detection of the red tide phytoplankton Heterosigma carterae, 390 (1999) 237

## Superoxide anion radical

On-line screening method for antioxidants by liquid chromatography with chemiluminescence detection, 383 (1999) 221

## Supersonic jet absorption spectrometry

Supersonic jet absorption spectrometry utilizing a xenon flashlamp and a monochromator equipped with a photodiode array, 302 (1995) 335

## Support

Optimization of a charge coupled device imaging enzyme linked immuno sorbent assay and supports for the simultaneous determination of multiple 2,4-D samples, 347 (1997) 87

## Supported liquid membrane extraction

Extraction of dansylated amino acids using the supported liquid membrane technique, 337 (1997) 183

Concentration of amino acids using supported liquid membranes with di-2-ethylhexyl phosphoric acid as a carrier, 346 (1997) 191

## Supported liquid membranes

Selective up-hill transport of gold to iodide stripping solution through a solvent modified liquid membrane containing a polysulphide podand as carrier, 327 (1996) 175

Automated trace enrichment and determination of metals using a combination of supported liquid membrane for sample pretreatment and graphite furnace atomic absorption spectrometry for the determination, 327 (1996) 295

Hollow fiber based supported liquid membrane: a novel analytical system for trace metal analysis, 350 (1997) 183

Selective separation of lanthanides by supported liquid membranes containing Cyanex 925 as a carrier, 387 (1999) 77

Analysis of solid samples using supported liquid membranes: a method for the evaluation of the release of nicotine from Swedish snuff, 387 (1999) 155

## Supporting electrolyte

Electrochemical oxidation of NADH at a bare glassy carbon electrode in different supporting electrolytes, 385 (1999) 345

## Supramolecular chemistry

Ionophores, ligands and reactands, 400 (1999) 65

## Supramolecular complex

β-Cyclodextrin cation exchange polymer membrane for improved second-generation glucose biosensors, 306 (1995) 201

## Supramolecular inclusion complex

Supramolecular inclusion complex formation and application of βcyclodextrin with heteroanthracene ring cationic dyes, 389 (1999) 291

### Supramolecular species

Analytical characterization of supramolecular species – determination of ruthenium and osmium in dendrimers by electrothermal atomic absorption spectrometry, 375 (1998) 285

## Surface acoustic wave sensor array

Analyzing organic vapors in exhaled breath using a surface acoustic wave sensor array with preconcentration: Selection and characterization of the preconcentrator adsorbent, 371 (1998) 131

## Surface acoustic wave sensors

Toward development of a humidity correction algorithm for surface acoustic wave sensors Part 4. The effect of coating mass, relative humidity and temperature on the isosteric heat of adsorption of benzene, toluene, 2-nitrotoluene and 2,4-dinitrotoluene onto platinum/lead-coated piezoelectric crystals, 343 (1997) 215

## Surface activation

Effect of surface activation on charge and mass transfer rates of the hexacyanoferrate(III)/(II) redox probe at fibrinogen-modified carbon paste electrodes, 340 (1997) 99

## Surface active behaviour

Electrochemical study of proton ionisation, copper(II) complexation and surfactant properties of piperazine-N-N-bis[2-hydroxypropanesulfonic acid] pH buffer. Comparison with other N-substituted aminosulfonic acids pH buffers, 369 (1998) 115

## Surface active substances

Electrochemical measuring system for determination of surfaceactive substances in aqueous solutions, 305 (1995) 269

Characterization of organic matter in fractionated seawater samples using o-nitrophenol as an electrochemical probe, 338 (1997) 179

## Surface effects

Differential scanning calorimetric and Fourier transform infrared spectrometric investigations of the influence of silica on the liquid crystalline properties of 4'-cyano-4-biphenyl[4-(4-pentenyloxy)]benzoate, 315 (1995) 77

## Surface enhanced Raman spectrometry

Surface-enhanced Raman scattering from functionalized selfassembled monolayers Part 1. Distance dependence of enhanced Raman scattering from a terminal phenyl group, 307 (1995) 333

## Surface gravimetry

Sulfate ion sensing based on a quartz-crystal microbalance immobilized with barium sulfate crystals grown on a self-assembled monolayer of phosphorylated 11-mercapto-1-undecanol, 375 (1998) 155

## Surface induced dissociation

Delayed extraction for improved resolution of ion/surface collision products by time-of-flight mass spectrometry, 397 (1999) 225

Fragmentation of protonated oligopeptides XLDVLQ (X=L, H, K or R) by surface induced dissociation: additional evidence for the 'mobile proton' model, 397 (1999) 247

## Surface morphology

Properties of carbon fibre microelectrodes as a basis for enzyme biosensors, 303 (1995) 275

## Surface plasmon monochromatic excitation

Fibre optic chemical sensor based on surface plasmon monochromatic excitation, 319 (1996) 121

## Surface plasmon resonance

Chemical vapour sensing by surface plasmon resonance optical fibre sensor coated with fluoropolymer, 337 (1997) 225

Diphenylurea hapten sensing with a monoclonal antibody and its Fab fragment: Kinetic and thermodynamic investigations, 362 (1998) 101

Novel surface plasmon resonance sensor chip functionalized with organic silica compounds for antibody attachment, 368 (1998) 71

## Surface roughness

Surface roughness with nanometer-scale Ag particles generated by ion implantation, 350 (1997) 209

# Surface techniques

Development of humidity correction algorithm for surface acoustic wave sensors Part 2. Mathematical model for water and nitrobenzene co-adsorption on aminopropyltriethoxysilane coated surface acoustic wave sensors, 302 (1995) 255

Clinical analysis of urea in human blood by coupling a surface acoustic wave sensor with urease extracted from pumpkin seeds, 307 (1995) 61

Surface-confined monomers on electrode surfaces Part 3. Electrochemical reactions and scanning probe microscopy investigations of ω-(N-pyrrolyl) alkanethiol self-assembled monolayers on gold, 307 (1995) 269

Laser-induced thermal desorption with Fourier transform mass spectrometry for the time resolved analysis of catalyst and biomedical implant model surface molecular composition, 307 (1995) 321

Surface-enhanced Raman scattering from functionalized selfassembled monolayers Part 1. Distance dependence of enhanced Raman scattering from a terminal phenyl group, 307 (1995) 333

Solvent-induced morphology changes in thin silver films, 307 (1995) 341

Atomic-scale view of motion on surfaces, 307 (1995) 355

Chemical bonds studied with functionalized atomic force microscopy tips, 307 (1995) 365

Scanning tunneling microscopic observations of commensurate crystalline structures for horizontally deposited cadmium stearate bilayers on graphite, 307 (1995) 377 Flow injection-renewable surface techniques, 308 (1995) 14

Study of the enhancement of the boron-beryllon III system by anion surfactant using oscillopolarography, 309 (1995) 63

Trapping method of antibodies on surfaces of polymerizing discs for enzyme immunoassay, 312 (1995) 85

Toward development of a humidity correction algorithm for surface acoustic wave sensors Part 3. Water, nitrobenzene and 2-nitrotoluene adsorption on platinum/lead coated piezoelectric sensors, 317 (1995) 281

Fibre optic chemical sensor based on surface plasmon monochromatic excitation, 319 (1996) 121

Ion beam sensitized SiO<sub>2</sub> surface for halide ions, 320 (1996) 289 Determination of oxacyanine dyes and rhodamine by a second harmonic generation technique using a femtosecond laser, 330 (1996) 117

Immunological activities of IgG antibody on pre-coated Fc receptor surfaces, 331 (1996) 97

## Surface water

Electron-capture detection in reversed-phase liquid chromatography using packed-capillary columns, 304 (1995) 47

Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165

Immuno affinity extraction of pesticides from surface water, 399 (1999) 69

Investigation of indicative methods in the Netherlands: validation of several commercial ELISAs for pesticides, 399 (1999) 143

## Surface-enhanced Raman scattering

Surface-enhanced Raman detection of nicotinamide in vitamin tablets, 368 (1998) 21

Evaluation of a chemical vapor dosimeter using polymer-coated SERS substrates, 399 (1999) 265

# Surface-enhanced Raman spectrometry

Surface-enhanced resonance Raman spectroscopy of 2-pyridylhydrazone and 1,10-phenanthroline chelate complexes with metal ions on colloidal silver, 318 (1996) 229

Surface-enhanced Raman spectrometry of chiral  $\beta$ -blocker drugs on colloidal silver, 335 (1996) 87

Evaluation of silver substrates for surface-enhanced Raman detection of drugs banned in sport practices, 376 (1998) 255

## Surface-enhanced resonance Raman spectroscopy

Coupling of column liquid chromatography and surface-enhanced resonance Raman spectroscopy via a thin-layer chromatographic plate, 349 (1997) 189

## Surfaces

Models for mediated reactions at film modified electrodes: controlled electrode potential, 307 (1995) 227

Time-of-flight secondary ion mass spectrometry of industrial materials, 393 (1999) 201

## Surfactant-alcohol mobile phases

Description of the partitioning behaviour of solutes and data treatment in micellar liquid chromatography with modifiers, 324 (1996) 163

## Surfactants

Comparing organized media types using fluorescence probe characterization methods, 307 (1995) 419

Studies of the influence of the surfactant sodium dodecyl sulfate on the fluorescence properties of kinetin, 329 (1996) 161

Cloud point extraction, preconcentration and spectrophotometric determination of erbium(III)-2-(3,5-dichloro-2-pyridylazo)-5dimethylaminophenol, 342 (1997) 229

Flow injection determination of anionic surfactants based on the solvatochromism of p-diphenylaminoazobenzene sulfonate, 343 (1997) 33

A study of the permeability properties of surfactant modified poly(vinyl chloride) membranes, 350 (1997) 67

Surfactant-modified poly(vinyl chloride) membranes as biocompatible interfaces for amperometric enzyme electrodes, 350 (1997) 77

Water solubility enhancement of pyrene in the presence of humic substances, by S. Tanaka et al.: comments, 355 (1997) 101

Determination of ammonia in wastewaters containing high concentrations of surfactants by flow injection potentiometry with online sample clean-up, 367 (1998) 193

PAN-incorporated Nafion-modified spectroscopic graphite electrodes for voltammetric stripping determination of lead, 369 (1998) 93

Room temperature phosphorescence flow-through biosensing of anionic surfactants, 371 (1998) 73

Interaction studies between europium and a surfactant cage "TAC8" by time-resolved laser-induced fluorescence, 378 (1999) 47

Pseudo-nonionic complexes as a new approach to the determination of ionic amphiphilic substances, 384 (1999) 105

Voltammetry of compounds confined at the hanging mercury drop electrode surface, 385 (1999) 315

Performance of arylboronic acids as ionophore for inorganic anions studied by fluorometry and potentiometry, 387 (1999) 189

The effects of surfactants on the analysis of organic pollutants in natural waters, 392 (1999) 39

## Suspended particulate matter

Development of a simple extraction procedure using ligand competition for biogeochemically available metals of estuarine suspended particulate matter, 392 (1999) 3

## Sustained-release formulation

Sequential-injection system for drug-dissolution studies of ibuprofen tablets and sustained-release formulations, 358 (1998) 103

## Sweat

Novel instrumentation for determination of ethanol concentrations in human perspiration by gas chromatography and a good interrelationship between ethanol concentrations in sweat and blood, 365 (1998) 259

## Sweat glands

Physical stimuli and emotional stress-induced sweat secretions in the human palm and forehead, 365 (1998) 319

## Sweat rate

Physical stimuli and emotional stress-induced sweat secretions in the human palm and forehead, 365 (1998) 319

## Sweet potato

Flow injection spectrophotometric determination of total phenols using a crude extract of sweet potato root (*Ipomoea batatas* (L.) Lam.) as enzymatic source, 366 (1998) 111

L-Cysteine determination using a polyphenol oxidase-based inhibition flow injection procedure, 399 (1999) 287

### Sweet potato root (Ipomoea batatas (L.) Lam.)

Flow injection spectrophotometric determination of sulfite using a crude extract of sweet potato root (*Ipomoea batatas* (L.) Lam.) as a source of polyphenol oxidase, 354 (1997) 51

### Sweeteners

Precipitation flow-injection method for the determination of saccharin in mixtures of sweeteners, 308 (1995) 275

## SWIFT

Notched broad-band excitation of ions in a bench-top ion trap mass spectrometer, 303 (1995) 149

### SW-NIR

Rapid estimation of rate constants using on-line SW-NIR and trilinear models, 376 (1998) 339

## Sympathetic nervous system

Physical stimuli and emotional stress-induced sweat secretions in the human palm and forehead, 365 (1998) 319

### Sympathomimetic drugs

Amperometric determination of sympathomimetic drugs by flow injection analysis with a metallic copper electrode, 379 (1999) 81

## Synchronous fluorescence

Classification of binding sites for Al(III) in fulvic acids extracted from leaf litters and soils by synchronous fluorescence spectroscopy and multidimensional chemometric analysis, 333 (1996) 71

First-derivative non-linear variable-angle synchronous fluorescence spectroscopy for the simultaneous determination of salicylamide, salsalate and naproxen in serum and urine, 373 (1998) 119

## Synchronous spectrofluorimetry

Artificial neural networks (ANNs) in the analysis of polycyclic aromatic hydrocarbons in water samples by synchronous fluorescence, 384 (1999) 261

Determination of polycyclic aromatic hydrocarbons by spectrofluorimetry, 388 (1999) 27

## Synchrotron XRD

On the use of X-ray powder diffraction for determining low levels of chrysotile asbestos in gypsum-based bulk materials: use of a synchrotron source, 350 (1997) 221

## Synergetic adsorption

Synergetic adsorption of copper(II) mixed ligand complexes onto the SEP-PAK C<sub>18</sub> column, 339 (1997) 181

## Synergetic catalytic effect

Synergetic catalytic effect of molybdate and tungstate on the hydrogen peroxide-iodide system and its analytical applications, 303 (1995) 241

## Synergetic effects

Partial least-squares regression for multicomponent kinetic determinations in linear and non-linear systems, 303 (1995) 309

Bromopyrogallol red enhanced resonance light-scattering spectroscopic determination of DNA with 5,10,15,20-tetrakis[4-(trimethylammoniumyl) phenyl]porphine, 379 (1999) 45

Synergetic effects in the flow injection analysis determination of catechol in the presence of excess ascorbic acid by series dual-band amperometric detection, 385 (1999) 281

## Synergistic liquid-liquid extraction

Use of synergistic extraction for the study of atrazine/metal interactions, 373 (1998) 161

## Synthetic antioxidants

Direct injection of edible oils as microemulsions in a micellar mobile phase applied to the liquid chromatographic determination of synthetic antioxidants, 387 (1999) 127

### Synthetic food colorants

Simultaneous spectrophotometric determination of mixtures of food colorants, 354 (1997) 163

## Synthetic lubricants

Measuring the water content of synthetic lubricants with polymercoated sensors, 315 (1995) 15

# Synthetic proteins

Selective purification of synthetic proteins by the use of FMOC- and biotin-based reversible chromatographic probes, 352 (1997) 375

## Synthetic pyrethroids

Determination of permethrin in indoor air by liquid chromatography with enzyme linked immunosorbent assay, 393 (1999) 103

## Synthetic samples

Third derivative spectrophotometric determination of trace rhodium after pre-concentration with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol chelate/tetraphenylborate ion pair on microcrystalline naphthalene, 382 (1999) 339

# Syringe pump

An investigation of internal pressures in capillary flow injection systems, 358 (1998) 95

## Syrups

Determination of reducing sugars by flow injection gravimetry, 366 (1998) 119

## Systematic errors

Determination of fission products and actinides by inductively coupled plasma-mass spectrometry using isotope dilution analysis: a study of random and systematic errors, 312 (1995) 57

# T

## 2,4,5-T

Easy-to-use immunoassay for the residue analysis of 2,4,5-T, 376 (1998) 37

### T(I)

Influence of Triton X-100 in stripping potentiometry, 333 (1996)

# $T^*_2$

Spin-spin relaxation time determination of intermediate states in heterogeneous products from free induction decay NMR signals, 349 (1997) 339

### Tablet dissolution

Potentiometric membrane sensors for the selective determination of cinnarizine in pharmaceutical preparations, 321 (1996) 47

## **Tabletop sweeteners**

Solid-phase reactor with copper(II) phosphate for flow-injection spectrophotometric determination of aspartame in tabletop sweeteners, 384 (1999) 167

### Tablets

Investigation of sources of variance which contribute to NIR-spectroscopic measurement of pharmaceutical formulations, 345 (1997) 185

# Tailing inhibitor

Amperometric biosensor for uric acid based on uricase-immobilized silk fibroin membrane, 369 (1998) 123

### Tamar estuary

Validation and in situ application of an automated dissolved nickel monitor for estuarine studies, 371 (1998) 235

Validation and in situ application of an automated dissolved nickel monitor for estuarine studies, 377 (1998) 217

## Tandem mass spectrometry

Notched broad-band excitation of ions in a bench-top ion trap mass spectrometer, 303 (1995) 149

Negative ion liquid secondary ion mass spectrometry and tandem mass spectrometric analysis of the molecular species of aminophospholipids as 9-fluorenylmethyloxycarbonyl derivatives, 326 (1996) 127

A study of the applicability of various ionization methods and tandem mass spectrometry in the analyses of triphenyltin compounds, 340 (1997) 5

Large-volume injection in gas chromatography-ion trap tandem mass spectrometry for the determination of pesticides in the marine environment at the low ng/l level, 353 (1997) 153

## Tannic acid

Flow injection analysis of tannic acid with inhibited chemiluminescent detection, 362 (1998) 151

# Tannins

Indirect flow-injection determination of tannins in wines and tea by atomic absorption spectrometry, 308 (1995) 357

## **Tantalum**

Potentiometric determination of tanatalum with a hexafluorotantalate(V)-selective liquid membrane electrode, 311 (1995) 183

Determination of trace impurities in tantalum by inductively coupled plasma mass spectrometry after removal of the matrix by liquid-liquid extraction, 329 (1996) 153 Behaviour of Zr, Hf, Nb, Ta and Pa on macroporous anion exchanger in chloride–fluoride media, 374 (1998) 149

Nuclide analysis of an irradiated tantalum target of a spallation neutron source using high performance ion chromatography and inductively coupled plasma mass spectrometry, 387 (1999) 145

### Tap water

Direct determination of ultratraces of thallium in water by flowinjection-differential-pulse anodic stripping voltammetry, 318 (1996) 159

Mercury nucleation on glassy carbon electrodes, 346 (1997) 157

## Tape monitor

Development of a monitoring tape for nitrogen dioxide in air, 321 (1996) 41

An automatic measurement of hydrogen cyanide in air by a monitoring tape method, 398 (1999) 305

## Target factor analysis

Advantages of target factor analysis against multiple linear regression methods for testing model equations in linear free energy relationships, 312 (1995) 295

Factor analysis applied to correlation between acidity constants of series of diuretics, quinolones and buffers, with solvatochromic parameters in water-acetonitrile mixtures, 347 (1997) 385

Solvent effects on protonation equilibria of peptides and quinolones by factor analysis applied to the correlation between dissociation constants and solvatochromic parameters in acetonitrile-water mixtures, 351 (1997) 397

## Target testing

A method for the determination of reaction mechanisms and rate constants from two-way spectroscopic data, 373 (1998) 83

Window target-testing factor analysis: theory and application to the chromatographic analysis of complex mixtures with multiwave-length fluorescence detection, 389 (1999) 95

## Targeting of antisense-effective site

Prediction of an antisense-effective target site on VEGFmRNA by using RNase H and a library of random oligonucleotides, 365 (1998) 55

## **Tartrazine**

Spectrophotometric resolution of ternary mixtures of Tartrazine, Patent Blue V and Indigo Carmine in commercial products, 391 (1999) 353

## TAR-XVI

Separation and preconcentration of uranium from geological materials with chelating resin containing 4-(2-thiazolylazo)resorcinol functional groups, 382 (1999) 199

## HTAS

Design and development of a miniaturised total chemical analysis system for on-line lactate and glucose monitoring in biological samples, 346 (1997) 341

Characterisation of a micro-total analytical system for the determination of nitrite with spectrophotometric detection, 387 (1999) 1

### Taste evaluation

Electrical potential oscillation across a water/octanol/water liquid membrane in the presence of two taste substances, 365 (1998) 279

## Taste sensor

An electronic tongue based on voltammetry, 357 (1997) 21

## Taste-taste interactions

Electrical potential oscillation across a water/octanol/water liquid membrane in the presence of two taste substances, 365 (1998) 279

### Tautomeric constants

Tautomeric and protonation equilibria of Schiff bases of salicylaldehyde with aminopyridines, 343 (1997) 135

## Tautomeric equilibria

Resolution of overlapping UV-visible absorption bands: quantitative analysis of tautomeric equilibria, 314 (1995) 225

### Taxo

Liquid chromatographic determination of taxol and related derivatives using a new polyfluorinated reversed-phase column, 319 (1996) 187

### Tay-Sachs

Amplified electronic transduction of oligonucleotide interactions: novel routes for Tay-Sachs biosensors, 385 (1999) 33

# Tb3+-Tiron complex

Determination of DNA and RNA by their quenching effect on the fluorescence of the Tb3+-Tiron complex, 353 (1997) 329

## TRO

Immobilized enzyme electrode for the determination of L-lactate in food samples, 345 (1997) 37

## TRE

Study of on-line analysis using energy dispersive X-ray fluorescence spectrometry for controlling lanthanum and neodymium extraction, 362 (1998) 253

## TDI

Biomarkers of toluene diisocyanate and thermal degradation products of polyurethane, with special reference to the sample preparation, 333 (1996) 277

## Tea

Indirect flow-injection determination of tannins in wines and tea by atomic absorption spectrometry, 308 (1995) 357

A strategy for the broad range detection of compounds with affinity for nucleic acids, 347 (1997) 79

Novel photochemical voltammetric method for the determination of traces of iron in tea, 354 (1997) 359

# Technetium-99

Improvement of Tc separation procedure using a chromatographic resin for direct measurement by ICP-MS, 357 (1997) 1

### **Technetium**

- Optimised method for the routine determination of Technetium-99 in environmental samples by liquid scintillation counting, 380 (1999) 73
- A dual radiotracer speciation technique with emphasis on probing of artefacts: a case study for technetium and spinach (Spinacia oleracea L.), 394 (1999) 271

### Technique

A new technique to measure bird's dietary exposure to pesticides, 399 (1999) 173

### Teeth

Use of laser ablation inductively coupled plasma mass spectrometry to provide element versus time profiles in teeth, 395 (1999) 179

### Tellurium

- Determination of selenium and tellurium in nickel and nickel/ironbased alloys by graphite furnace atomic absorption spectrometry with a nickel/palladium matrix modifier, 304 (1995) 115
- Determination of trace amounts of selenium and tellurium in nickelbased heat-resisting superalloys, steels and several metals by electrothermal atomic absorption spectrometry after reductive coprecipitation with palladium using ascorbic acid, 312 (1995) 157
- Cathodic stripping voltammetric determination of tellurium(IV) at a Nafion/8-quinolinol mercury film modified electrode, 358 (1998) 285
- Determination of arsenic, antimony, selenium, tellurium and bismuth in nickel metal by hydride generation atomic fluorescence spectrometry, 371 (1998) 109

## **Tellurium determination**

Comparative spectrophotometric study of the complexation and extraction of tellurium with various halide ions and N,N'-di(a-cetoxyethyl)indocarbocyanine, 386 (1999) 161

## TEM

Characterization of a single-piece all-solid-state lithium-selective electrode based on soluble conducting polyaniline, 385 (1999) 163

## Temazepam

Reactions of temazepam in acidic aqueous solution via oxygen-18labeled product analysis by mass spectrometry, 309 (1995) 307

## Temperature dependence

Temperature effect on the characteristic solute-solvent retention interactions, calculated with Abraham's solvation model, for 16 GLC stationary phases, 377 (1998) 71

## Temperature effects

- Study of the temperature behaviour of all-solid-state nonactin ammonium electrodes with PVC membrane applied to graphite-epoxy supports of varied composition, 355 (1997) 241
- Thermal lens investigation of the temperature dependence of the refractive index of organo-aqueous solutions, 390 (1999) 155

# Temperature programming

Characterisation of the ion mobility spectrometric behaviour of a dinitrobutane under varying conditions of temperature and concentration, 375 (1998) 49

## Template

Molecular imprint membranes of polyacrylonitrile copolymers with different acrylic acid segments, 365 (1998) 81

## Templated film electrodes

Selectivity and sensitivity of ultrathin purine-templated overoxidized polypyrrole film electrodes, 336 (1996) 37

## Temporal changes

Practical improvements for redox potential (E<sub>H</sub>) measurements and the application of a multiple-electrode redox probe (MERP) for characterising sediment in situ, 367 (1998) 201

### Tenoxicam

Flow injection spectrophotometric determination of tenoxicam, 375 (1998) 277

### Tensammetry

- Application of an indirect tensammetric method for the determination of non-ionic surfactants in surface water, 305 (1995) 256
- Studies of preservation of water samples for the determination of non-ionic surfactants, 311 (1995) 31
- Determination of non-ionic surfactants adsorbed on particles of surface water by an indirect tensammetric method combined with the BiAS separation scheme, 331 (1996) 131

## Terbinafine

Voltammetric behaviour of the antimycotic terbinafine at the hanging mercury drop electrode, 351 (1997) 97

# Terbium

- Time-resolved, total internal reflection fluorescence microscopy of cultured cells using a Tb chelate label, 307 (1995) 403
- X-ray irradiated sodium chloride as an excitation source for the sensitized terbium(III)-specific chemiluminescence of aromatic Tb(III) chelates in aqueous solutions, 347 (1997) 333
- Room temperature phosphorescence emission in fully aqueous medium induced by injection of hot electrons into an electrolyte solution, 355 (1997) 1
- Hot electron-induced time-resolved electrogenerated luminescence of Tb(III) ions at stationary oxide-covered aluminium electrodes, 359 (1998) 71

## Terbium ion

Determination of terbium with solid surface room temperature luminescence optosensing, 322 (1996) 167

# Terbium ternary complexes

Comparative study of fluorescent ternary terbium complexes. Application in enzyme amplified fluorimetric immunoassay for αfetoprotein, 335 (1996) 177

# Terbuthylazine

Trace determination of triazine herbicides by means of coupledcolumn liquid chromatography and large volume injection, 338 (1997) 223

### Terbutryn

Trace determination of triazine herbicides by means of coupledcolumn liquid chromatography and large volume injection, 338 (1997) 223

# Terephthalaldehydic acid methyl ester (TAE)

Investigations on intermediate acetal formation during polarographic estimation of certain benzaldehyde derivatives, 307 (1995) 55

### Ternary complexes

Determination of cadmium in foodstuffs and plant materials by flow injection-spectrophotometry including ion exchange, 306 (1995) 343

Determination of cadmium in fertilizers by flow-injection spectrophotometry, 308 (1995) 439

New separation method for chromium(VI) in water by collection of its ternary complex on an organic solvent-soluble membrane filter, 332 (1996) 307

## Ternary mixtures

Application of a new spectrophotometric method for the analysis of a ternary mixture containing metamizol, paracetamol and caffeine in tablets, 359 (1998) 93

The continuous-addition-of-reagent technique as an effective tool for enhancing kinetic-based multicomponent determinations using computational neural networks, 389 (1999) 131

### Terpenes

Ancient resinous substances characterisation, an approach by principal component analysis, 317 (1995) 65

# Terpyridine aminopolycarboxylate chelate

Determination of copper at ng ml<sup>-1</sup>-levels based on quenching of the europium chelate luminescence, 364 (1998) 125

## tert.-Butylhydroxyanisole

Electrocatalytic and flow-injection determination of the antioxidant tert.-butylhydroxyanisole at a nickel phthalocyanine polymer modified electrode, 305 (1995) 49

## Tertiary amines

Chemiluminescence measurement of tertiary amines using the continuous-addition-of-reagent technique. Determination of trimethylamine in fish samples, 356 (1997) 51

## Test mixtures

Automation of gas chromatography instruments. Part I. Automated peak identification in the chromatograms of standard test mixtures, 354 (1997) 65

## **Test solution**

Practical improvements for redox potential (E<sub>H</sub>) measurements and the application of a multiple-electrode redox probe (MERP) for characterising sediment in situ, 367 (1998) 201

## Test strips

Dip-and-read test strips for the determination of trinitrotoluene (TNT) in drinking water, 396 (1999) 309

### Testosterone

Affinity between immobilised monoclonal and polyclonal antibodies and steroid-enzyme tracers increases sharply at high surface density, 381 (1999) 133

# Tether hydrophobicity

The impact of tether hydrophobicity on stoichiometry of immobilized indicator-analyte complexes, 316 (1995) 391

### Tetrabase

Spectrophotometric determination of trace bromide by its catalytic effect on the tetrabase-chloramine T reaction, 319 (1996)

An automatic measurement of hydrogen cyanide in air by a monitoring tape method, 398 (1999) 305

## 3,4,5,6-tetrabromophenol sulphonephthalein

Extending the response range of an optical fibre pH sensor using an artificial neural network, 330 (1996) 31

## Tetrabromophenolphthalein ethyl ester

Extractive spectrophotometric determination of silver(I) at the 10<sup>-7</sup> M level using 1,10-phenanthroline and tetrabromophenolphthalein ethyl ester, 333 (1996) 167

Simple method for spectrophotometric determination of cationic surfactants without liquid-liquid extraction, 384 (1999) 215

## Tetrabutylammonium perchlorate

Hydrophobic salt-induced phase-separation and extraction for sample preparation in chromatographic determination of heavy metal ions as dibenzyldithiocarbamates, 356 (1997) 135

## Tetrachloroethylene

Whole-cell biosensor for determination of volatile organic compounds in the form of aerosols, 364 (1998) 153

# Tetrachloroplatinate(II)

Studies of platinum(II) compounds in aqueous solution. Part 1.  $K_2PtCL_4$ , 350 (1997) 203

# 7,7,8,8-tetracyanoquinodimethane

Determination of organophosphorus and carbamate pesticides using a biosensor based on a polishable, 7.7.8.8-tetracyanoquinodimethane-modified, graphite-epoxy biocomposite, 337 (1997)

## Tetracyanoquinodimethane

Inverse derivative chronopotentiometry/quartz crystal microgravimetry of solid conducting salt films, 380 (1999) 47

## Tetracycline derivative

Simultaneous determination of sulfadiazine, doxycycline, furaltadone and trimethoprim by partial least squares multivariate calibration, 313 (1995) 103

# Tetracycline hydrochloride

Ruggedness tests on the high-performance liquid chromatography assay of the United States Pharmacopeia XXII for tetracycline hydrochloride. A comparison of experimental designs and statistical interpretations, 312 (1995) 245

## Tetracycline screening

A novel screening method for tetracycline in milk combining sensitized-Eu(III) fluorescence and immunoaffinity techniques, 375 (1998) 1

## Tetracyclines

Post-column zirconium chelation and fluorescence detection for the liquid chromatographic determination of tetracyclines, 303 (1995) 11

Study on strongly polarized water in AOT reversed micelles by fluorescence probes and analytical application of AOT reversed micelles, 312 (1995) 337

Solid surface room temperature phosphorescence of tetracycline antibiotics, 319 (1996) 239

Time-resolved fluorescence studies of the interaction of the Eu<sup>3+</sup> complexes of tetracycline analogues with DNA, 345 (1997) 213

Determination of tetracyclines with a modified  $\beta$ -cyclodextrin based fluorosensor, 351 (1997) 205

## Tetradecyldimethylbenzylammonium chloride

Derivative UV-visible spectrophotometric determination of nickel in alloys and biological samples after preconcentration with the ion pair of 2-nitroso-1-naphthol-4-sulfonic acid and tetradecyldimethylbenzylammonium chloride onto microcrystalline naphthalene or by a column method, 367 (1998) 55

## Tetraethylenpentamine resin

Preconcentration and matrix separation of precious metals in geological and related materials using metalfix-chelamine resin prior to inductively coupled plasma mass spectrometry, 340 (1997) 31

## Tetraethyllead

Use of an air/argon microwave plasma torch for the detection of tetraethyllead, 383 (1999) 231

## Tetrahydrofuran

Ionic equilibria in aqueous organic solvent mixtures The dissociation constants of acids and salts in tetrahydrofuran/water mixtures, 340 (1997) 133

Autoprotolysis in aqueous organic solvent mixtures. Water/dipolar protophilic solvent binary systems, 349 (1997) 367

## Tetrahydrofuran-water

Chromatographic behaviour of ionizable compounds in liquid chromatography. Part 1. pH scale, pK<sub>a</sub> and pH<sub>S</sub> values for standard buffers in tetrahydrofuran-water, 389 (1999) 31

## 3α,7α,12α,24-Tetrahydroxy-5β-cholestan-26-oyl CoA

Separation of stereoisomers of C<sub>27</sub>-bile acid CoA esters by liquid chromatography and its application to the study of the stereospecificities of D- and L-bifunctional proteins in bile acid biosynthesis, 365 (1998) 249

# 3,3',4',7-Tetrahydroxyflavone

Liquid chromatographic determination of triphenyltin and tributyltin using fluorimetric detection, 314 (1995) 175

### Tetrajodobismuthate

Spectrophotometric determination of bismuth after extraction of benzyltributylammonium tetraiodobismuthate(III), 355 (1997) 167

## Tetraiodobismuthate(III)

The spectrophotometric determination of bismuth after extraction of protriptylinium tetraiodobismuthate(III), 334 (1996) 209

Spectrophotometric determination of bismuth in pharmaceutical samples by extraction of the tetraiodobismuthate(III) anion into propylene carbonate, 337 (1997) 113

## 5,10,15,20-Tetrakis(4-aminophenyl)porphine

Highly sensitive spectrophotometric determination of nitrite ion using 5,10,15,20-tetrakis(4-aminophenyl)porphine for application to natural waters, 333 (1996) 175

## Tetrakis(2-ethylhexyl) pyromellitate

New cocaine-selective membrane electrode, 316 (1995) 371

## 5,10,15,20-tetrakis[4-(trimethylammoniumyl)phenyl]prophine

Bromopyrogallol red enhanced resonance light-scattering spectroscopic determination of DNA with 5,10,15,20-tetrakis[4-(trimethylammoniumyl) phenyl]porphine, 379 (1999) 45

### Tetramers

High performance liquid chromatographic analysis of human hemoglobins and their polypeptide chains: its use in the identification of variants, 352 (1997) 187

## Tetramethylammonium fluoride tetrahydrate

Performance of a tetramethylammonium fluoride tetrahydrate coated piezoelectric crystal for carbon dioxide detection, 335 (1996) 235

# Tetraphenylborate

Potentiometric membrane sensors for the selective determination of cinnarizine in pharmaceutical preparations, 321 (1996) 47

## Tetraphenylborate derivatives

Lipophilicity of tetraphenylborate derivatives as anionic sites in neutral carrier-based solvent polymeric membranes and lifetime of corresponding ion-selective electrochemical and optical sensors, 309 (1995) 7

# Tetraruthenated porphyrins

Determination of sulfur dioxide in wines by gas-diffusion flow injection analysis utilizing modified electrodes with electrostatically assembled films of tetraruthenated porphyrin, 387 (1999) 175

# Tetra-tert-butyl copper phthalocyanine

Hydrogen peroxide - sensitive enzyme sensor based on phthalocyanine thin film, 391 (1999) 289

## Tetrathiafulvalene

Voltammetric characterisation of an insoluble tetrathiafulvalene derivative by means of modified carbon paste electrode, 336 (1996) 77

## Tetrathiafulvalene mediator

β-Cyclodextrin cation exchange polymer membrane for improved second-generation glucose biosensors, 306 (1995) 201

## Tetrathiocyanatocobaltate(II) benzyltributylammonium

Spectrophotometric determination of cobalt by extraction of benzyltributylammonium tetrathiocyanatocobaltate(II), 355 (1997) 163

### Tetrols

Identification of stereoisomeric benzo[a]pyrene tetrols by reversedphase liquid chromatography coupled semi-on-line to fluorescence line-narrowing spectroscopy, 303 (1995) 3

### Th matrix

Chemical separation and inductively coupled plasma-atomic emission spectrometric determination of seventeen trace metals in thorium oxide matrix using a novel extractant - Cyanex-923, 370 (1998) 163

### Thalidomide

A reversed-phase high performance liquid chromatography method using solid phase extraction to quantitate thalidomide in human serum. 339 (1997) 91

Enantiomeric separation of some piperidine-2,6-dione drugs on tolylcellulose by liquid chromatography, 346 (1997) 183

### Thallium

Direct determination of ultratraces of thallium in water by flowinjection-differential-pulse anodic stripping voltammetry, 318 (1996) 159

Slurry sampling for the determination of lead, cadmium and thallium in soils and sediments by electrothermal atomic absorption spectrometry with fast-heating programs, 328 (1996) 19

Hair analysis. Part 2. Differential pulse anodic stripping voltammetric determination of thallium in human hair samples of persons in permanent contact with lead in their workplace, 343 (1997) 225

Thallium speciation in river waters with Chelex-100 resin, 395 (1999) 301

Use of hydrofluoric acid to decrease the background signal caused by sodium chloride in electrothermal atomic absorption spectrometry, 396 (1999) 279

Hot electron-induced electrogenerated luminescence of Tl(I) at disposable oxide-covered aluminum electrodes, 398 (1999) 41

## Thallium hydride generation

Investigation of thallium hydride generation using in situ trapping in graphite tube by atomic absorption spectrometry, 360 (1998) 209

## Thallium(I)

Application of thallium(I) as an internal standard redox process in voltammetric measurements, 331 (1996) 125

Hydrated electron-induced chemiluminescence of thallium(I) ion, 382 (1999) 233

## Theobromine

A rapid procedure for the determination of caffeine, theophylline and theobromine in urine by micellar liquid chromatography and direct sample injection, 304 (1995) 195 Simultaneous determination of caffeine, theobromine and theophylline in foods and pharmaceutical preparations by using ion chromatography, 371 (1998) 287

Extraction of methylxanthines from human body fluids by solidphase microextraction, 387 (1999) 53

## Theophylline

Thiophilic gels: applications in flow-injection immunoassays for macromolecules and haptens, 303 (1995) 223

A rapid procedure for the determination of caffeine, theophylline and theobromine in urine by micellar liquid chromatography and direct sample injection, 304 (1995) 195

Determination of theophylline by liquid chromatography with sensitized lanthanide luminescence detection, 306 (1995) 49

Fluorimetric-flow injection determination of theophylline based on its inhibitory effect on immobilized alkaline phosphatase, 308 (1995) 159

Simultaneous determination of caffeine, theobromine and theophylline in foods and pharmaceutical preparations by using ion chromatography, 371 (1998) 287

Disposable liposome immunosensor for theophylline combining an immunochromatographic membrane and a thick-film electrode, 380 (1999) 17

Extraction of methylxanthines from human body fluids by solidphase microextraction, 387 (1999) 53

## Theophylline monitoring

Determination of theophylline in blood serum by UV spectrophotometry and partial least-squares (PLS-1) calibration, 384 (1999) 95

## Therapeutic drug monitoring

Continuous in-vivo monitoring of metronidazole in cerebrospinal fluid by a on-line flow-cell fiber-optic chemical sensor system, 331 (1996) 103

## Thermal analysis

Prediction of physical properties of fabrics using DRIFT spectroscopy and thermal analysis, 332 (1996) 105

## Thermal decomposition

In situ detection of trinitrotoluene and other nitrated explosives in soils, 341 (1997) 63

## Thermal degradation

Biomarkers of toluene diisocyanate and thermal degradation products of polyurethane, with special reference to the sample preparation, 333 (1996) 277

Characterization of lake-aquatic humic matter isolated with two different sorbing solid techniques: pyrolysis electron impact mass spectrometry, 391 (1999) 331

## Thermal desorption MS

Fast screening of contaminated soil samples using thermal desorption mass spectrometry, 315 (1995) 159

## Thermal ionisation mass spectrometry

Measurement of bismuth at pg g<sup>-1</sup> concentrations in snow and ice samples by thermal ionisation mass spectrometry, 347 (1997) 351

## Thermal ionization mass spectrometry

Precise determination of lithium isotopic composition by thermal ionization mass spectrometry in natural samples such as seawater, 370 (1998) 215

## Thermal lens

Thermal lens investigation of the temperature dependence of the refractive index of aqueous electrolyte solutions, 356 (1997) 277

## Thermal lens spectrometry

Optical saturation, diffusion and convection effects in thermal lens spectrometry, 307 (1995) 145

Prediction of the calibration curves for the analysis of high absorbances using mode-mismatched dual-beam thermal lens spectrometry with chopped continuous wave laser excitation, 322 (1996) 117

Thermal lens spectrometric determination of hexavalent chromium, 330 (1996) 245

Optical saturation thermal lens spectrometry in non-polar solvents, 345 (1997) 257

Influence of the Soret effect on the analytical signal in cw-laser thermal lens spectrometry of micellar solutions, 386 (1999) 287

Thermal lens investigation of the temperature dependence of the refractive index of organo-aqueous solutions, 390 (1999) 155

Monitoring supercritical fluid extraction by thermal lens spectrometry with pulsed laser excitation, 390 (1999) 163

## Thermal phase separation

A novel polymer-mimetic enzyme immunoassay system based on thermal phase separating technique, 375 (1998) 177

## **Thermistor**

A thermistor as a sensor in gas phase flow injection analysis, 366 (1998) 5

## Thermodynamically-controlled synthesis

Use of conductimetry for the monitoring of thermodynamicallycontrolled enzymatic peptide synthesis, 312 (1995) 213

## Thermodynamics

Kinetic and thermodynamic considerations in the determination of aluminium using pyrocatechol violet: implications for the use of 'kinetic-based' determinations of metal ions in natural systems, 359 (1998) 329

Diphenylurea hapten sensing with a monoclonal antibody and its Fab fragment: Kinetic and thermodynamic investigations, 362 (1998) 101

Ionophores, ligands and reactands, 400 (1999) 65

# Thermogravimetry

Characterisation of an unusual crystalline efflorescence on an Egyptian limestone relief, 337 (1997) 151

Thermogravimetry/mass spectrometry of urease-immobilized solgel silica and the application of such a urease-modified electrode to the potentiometric determination of urea, 384 (1999) 219

## Thermometric analysis

Comparison of thermogravimetric and differential scanning calorimetric results for cellulosic fabrics by chemometrics, 304 (1995)

## Thermometric methods

Optical saturation, diffusion and convection effects in thermal lens spectrometry, 307 (1995) 145

A TGA investigation of hydrated monoclinic zirconia, 327 (1996) 261

## Thermometric titration

Determination of acetaminophen by thermometric titrimetry, 343 (1997) 125

## Thermoregulation of enzyme activity

Stimuli-sensitive hydrogel material for biosensor-chemical trigger, 347 (1997) 27

## Thermoreversible hydrogels

Stimuli-sensitive hydrogel material for biosensor-chemical trigger, 347 (1997) 27

## Thermospray nebulization

Evaluation of a flow injection system combined with an inductively coupled plasma mass spectrometer with thermospray nebulization for the determination of trace levels of platinum, 320 (1996)

Speciation of chromium using thermospray nebulization as sample introduction into inductively coupled plasma mass spectrometry, 322 (1996) 1

## Thiacrown ether

Liquid-liquid extraction of cationic metal complexes with p-nonylphenol solvent: Application to crown and thiacrown ether complexes of lead (II) and copper (II), 363 (1998) 165

# Thiamine

A selective optosensor for UV spectrophotometric determination of thiamine in the presence of other vitamins B, 376 (1998) 227

Highly sensitive electrochemical luminescence determination of thiamine, 394 (1999) 165

## Thiazoles

Sensitive liquid chromatographic determination of hydrophobic primary and secondary amines by derivatization to form highly fluorescent thiazoles, 327 (1996) 153

## Thiazolidine derivatives

Gas chromatographic determination of aldehydes in combustion smoke samples, 358 (1998) 269

## 4-(2-Thiazolylazo)resorcinol

Extraction of 4-(2-pyridylazo) resorcinol and 4-(2-thiazolylazo) resorcinol with chloroform and tetraphenylarsonium and phosphonium chlorides, 318 (1996) 345

A chelating resin containing 4-(2-thiazolylazo)resorcinol as the functional group Synthesis and sorption behaviour for trace metal ions, 339 (1997) 303

A chelating resin containing 4-(2-thiazolylazo)resorcinol as the functional group. Chromatographic application to the preconcentration and separation of some trace metal ions including uranium, 351 (1997) 57

Separation and preconcentration of uranium from geological materials with chelating resin containing 4-(2-thiazolylazo)resorcinol functional groups, 382 (1999) 199

### Thick-film

Optimization of a charge coupled device imaging enzyme linked immuno sorbent assay and supports for the simultaneous determination of multiple 2,4-D samples, 347 (1997) 87

## Thick-film carbon electrode

Electrochemical characteristics of a carbon-based thick-film L-lactate biosensor using L-lactate dehydrogenase, 336 (1996) 57

## Thick-film sensors

Disposable strip potentiometric electrodes with solvent-polymeric ion-selective membranes fabricated using screen-printing technology, 385 (1999) 451

Determination of breath alcohol using a differential-type amperometric biosensor based on alcohol dehydrogenase, 390 (1999) 83

## Thick-film technology

Screen-printed ruthenium dioxide electrodes for pH measurements, 351 (1997) 143

## Thickness shear mode resonators

Selective detection of nitrogen and oxygen containing volatile organic compounds: use of metal-modified polysiloxanes as sensor coatings, 346 (1997) 327

## Thickness-shear mode (TSM) sensors

Evaluation of methods to minimize effects of liquid viscosity and density on the oscillating frequencies of thickness-shear-mode (TSM) piezoelectric resonators, 312 (1995) 217

Signal oscillations of a piezoelectric quartz crystal in liquids caused by compressional waves, 364 (1998) 189

## Thickness-shear-mode acoustic wave sensors

Adhesion of human platelets to collagen detected by <sup>51</sup>Cr labelling and acoustic wave sensor, 342 (1997) 23

Fast Fourier transform admittance analysis method applied to thickness-shear-mode acoustic wave sensors, 353 (1997) 29

Thickness-shear-mode acoustic-wave sensor based on n-butylamine plasma-deposition film for detection of carboxylic acid vapours, 384 (1999) 37

# Thin and thick film electrodes

Microfabricated amperometric creatine and creatinine biosensors, 319 (1996) 335

## Thin film electrode

CeO<sub>2</sub> thin film electrode with a built-in electrochemically resetable oxidant for potentiometric stripping analysis, 329 (1996) 239

## Thin films

Models for mediated reactions at film modified electrodes: controlled electrode potential, 307 (1995) 227

Aerosol-generated sol-gel-derived thin films as biosensing platforms, 332 (1996) 83

# Thin layer chromatography

Thin layer chromatography and principal component analysis for the study of the interaction of amino acids with some antisense nucleosides, 316 (1995) 105

Studies of platinum(II) compounds in aqueous solution. Part 1.  $K_2PtCl_4$ , 350 (1997) 203

Studies of platinum(II) compounds in aqueous solution. Part 2. cis-Pt(NH<sub>3</sub>)<sub>2</sub>Cl<sub>2</sub>, 358 (1998) 61

Studies of platinum(II) compounds in aqueous solution. Part 3. The study of some reactions of K<sub>2</sub>[PtCl<sub>4</sub>] and K[Pt(NH<sub>3</sub>)Cl<sub>3</sub>], 371 (1998) 279

## Thin layer electrochemical cell

Chemical oxygen demand sensor employing a thin layer electrochemical cell, 386 (1999) 211

# Thin layer electrophoresis

Studies of platinum(II) compounds in aqueous solution. Part 2. cis-Pt(NH<sub>3</sub>)<sub>2</sub>Cl<sub>2</sub>, 358 (1998) 61

Thin layer chromatographic and electrophoretic study of mixed chloro-thiocyanato and chloro-selenocyanato complexes of platinum(IV), 391 (1999) 315

## Thin long flow-through cell

Determination of dissolved silica in waters by a flow-based analysis system composed of a laser diode and a thin long flow-through cell, 318 (1996) 195

## Thin mercury film

An approach to the calibrationless determination of copper and lead by anodic stripping voltammetry at thin mercury film microelectrodes. Application to well water and rain, 346 (1997) 145

### Thin rod acoustic wave sensor

Water-instigated changes in elastic modulus of polypyrrole studied by thin rod acoustic wave sensor, 353 (1997) 255

# Thin-layer cell/detector

Predictive model for coulometric operation in a thin-layer amperometric flow cell. 306 (1995) 115

# Thin-layer chromatography

Characterization of gangliosides by two-dimensional high-performance thin-layer chromatography, 311 (1995) 57

Fluorescence line-narrowing spectroscopy of analytes deposited on thin-layer chromatography plates, 389 (1999) 77

## Thin-layer electrochemistry

Trace analysis of neutral organic species using thin-layer electrochemistry, 321 (1996) 195

## Thioamide calix[4]arene

Switching of ion selectivity of membranes by lipophilic ionic sites, 326 (1996) 163

## Thiobacillus ferrooxidans

Sulfate sensor using Thiobacillus ferrooxidans, 347 (1997) 275

## Thiobarbituric acid

Kinetic behaviour of the malonaldehyde-thiobarbituric acid reaction. Kinetic-fluorimetric determination of malonaldehyde in human serum, 320 (1996) 125

## 2-Thiobarbituric acid reactive substances

A combined sampling and delay unit for flow injection analysis. The automated determination of 2-thiobarbituric acid reactive substances in foods, 322 (1996) 69

## Thiobencarb

Immunochemical approach for assay of herbicide thiobencarb, 376 (1998) 97

## Thiocompounds

Pulsed electrochemical detection of thiocompounds following microchromatographic separations, 307 (1995) 301

### Thiocyanate

Determination of thiocyanate by carbonyl sulphide (OCS) generation and gas-phase molecular absorption spectrometry, 318 (1996) 377

Fluorimetric method for the determination of thiocyanate with 2',7'dichlorofluorescein and iodine, 394 (1999) 171

## Thiocyanate determination

Use of near-infrared spectrometry in control analyses of acrylic fibre manufacturing processes, 383 (1999) 291

### Thiocyanato complexes

Thin layer chromatographic and electrophoretic study of mixed chloro-thiocyanato and chloro-selenocyanato complexes of platinum(IV), 391 (1999) 315

## Thiohydrazone

Copper potentiometric sensors based on copper complexes containing thiohydrazone and thiosemicarbazone ligands, 385 (1999) 143

### Thiols

Chemical bonds studied with functionalized atomic force microscopy tips, 307 (1995) 365

Determination of pharmaceutical thiols by liquid chromatography with electrochemical detection: Use of an electrode with a conductive carbon cement matrix, chemically modified with cobalt phthalocyanine, 332 (1996) 249

Electrochemical response of new carbon electrodes bulk modified with cobalt phthalocyanine to some thiols in the presence of heptane or human urine, 394 (1999) 91

## Thionine monolayer

A reagentless hydrogen peroxide sensor based on incorporation of horseradish peroxidase in poly(thionine) film on a monolayer modified electrode, 391 (1999) 299

## Thionitrite

Amperometric determination of nitrite based on reaction with 3mercaptopropanoic acid, 382 (1999) 189

## Thiophene

Protonation constants of some N-substituted thiophene-2-carboxamidoximes, 392 (1999) 343

# Thiophilic gels

Thiophilic gels: applications in flow-injection immunoassays for macromolecules and haptens, 303 (1995) 223

# Thiopronine

Determination of pharmaceutical thiols by liquid chromatography with electrochemical detection: Use of an electrode with a conductive carbon cement matrix, chemically modified with cobalt phthalocyanine, 332 (1996) 249

## Thioridazine

Photochemical derivatization and spectrophotometric determination of thioridazine by flow injection, 326 (1996) 23

## Thiosemicarbazone

Copper potentiometric sensors based on copper complexes containing thiohydrazone and thiosemicarbazone ligands, 385 (1999) 143

## Thiosulphate/sulphite ratios

Automatic continuous-flow determination of sulphite in the presence of a high concentration of thiosulphate, 302 (1995) 269

# Thiourea derivatives

Application of a sensitive catechol detector for determination of tyrosinase inhibitors, 362 (1998) 81

### Thioureas

Reactivities of amperometric organic phase peroxidase-modified electrodes in the presence and absence of thiourea and ethylenethiourea as inhibitors, 305 (1995) 57

Sensitive liquid chromatographic determination of hydrophobic primary and secondary amines by derivatization to form highly fluorescent thiazoles, 327 (1996) 153

Application of a bis-thiourea ionophore for an anion selective electrode with a remarkable sulfate selectivity, 358 (1998) 35

## Thiram

Development of graphite-poly(tetrafluoroethylene) composite electrodes Voltammetric determination of the herbicides thiram and disulfiram, 305 (1995) 192

## Thorium

Determination of uranium, thorium and lanthanum in mixed solutions using simultaneous spectrophotometry, 329 (1996) 173

Synthesis and metal sorption studies of p-tert-butylcalix[8]arene chemically bound to polymeric support, 335 (1996) 283

Precise determination of rare earth elements, thorium and uranium in chondritic meteorites by inductively coupled plasma mass spectrometry – a comparative study with radiochemical neutron activation analysis, 338 (1997) 237

Sequential separation of light rare-earth elements, thorium and uranium by miniaturized extraction chromatography: Application to isotopic analyses of silicate rocks, 339 (1997) 79

Interactions of uranium and thorium with arsenazo III in an aqueous medium, 341 (1997) 263

Separation of thorium, uranium and rare-earth elements with 2-[(2-arsenophenyl)-azo]-1,8-dihydroxy-7-[(2,4,6-tribromophenyl)azo]-naphthalene-3,6-disulfonic acid by capillary electrophoresis, 358 (1998) 157

## THP-cyclen

A differential pulse polarographic study of bismuth<sup>III</sup> complexes with macrocyclic ligands 1,4,7,10-tetraazacyclododecane and 1,4,7,10-tetrakis (2-hydroxypropyl)-1,4,7,10-tetraazacyclododecane. An out-of-cell determination of stability constants of polarographically active and inactive bismuth complexes at

fixed ligand to metal ratio and various pH values, 372 (1998) 323

## Three-dimensional spectrum

Three-dimensional spectra of the long-range assembly of Nile Blue sulfate on the molecular surface of DNA and determination of DNA by light-scattering, 395 (1999) 187

## Three-mode calibration

Two-way, unfolded three-way and three-mode partial least squares calibration of diode array HPLC chromatograms for the quantitation of low-level pharmaceutical impurities, 384 (1999) 71

# Three-way principal component analysis (PCA)

Modeling bio-geochemical interactions in the surface waters of the Gulf of Trieste by three-way principal component analysis (PCA), 398 (1999) 227

## Thylakoid membrane proteins

Rapid method for assay of quantitative binding of soluble proteins and photosynthetic membrane proteins on poly(vinylidene difluoride) membranes, 365 (1998) 109

## Thylakoid membranes

Thylakoid membranes-based test-system for detecting of trace quantities of the photosynthesis-inhibiting herbicides in drinking water, 391 (1999) 1

### **Thylakoids**

Entrapment of chloroplasts and thylakoids in polyvinylalcohol-SbQ.

Optimization of membrane preparation and storage conditions,
311 (1995) 437

# Thymine

Photoinduced dimerization of thymine in microemulsion for UVB radiation exposure measurements, 318 (1995) 103

## Thymol blue

Spectral study of interaction of thymol blue with protein in acidic solution, 341 (1997) 97

## Thymosin β<sub>4</sub>

Oxidation and reduction of thymosin  $\beta_4$  and its influence on the interaction with G-actin studied by reverse-phase HPLC and post-column derivatization with fluorescamine, 352 (1997) 249

# **β-Thymosins**

HPLC and post-column derivatization with fluorescamine: isolation of actin-sequestering β-thymosins by reversed-phase HPLC, 352 (1997) 239

## Thyreostatic compounds

Detection and identification of thyreostats in the thyroid gland by gas chromatography-mass spectrometry, 340 (1997) 201

## Thyroid stimulating hormone

A thyroid-stimulating hormone immuno-electrode, 325 (1996)

An enzymatic amplification cycle for high sensitive immunoassay, 328 (1996) 27

## Ticlopidine

Evaluation of ticlopidine in human serum and plaque by liquid chromatography/atmospheric pressure chemical ionization mass spectrometry, 354 (1997) 87

### TICT

Study and application of a novel probe using twisted intramolecular charge transfer fluorescence, 349 (1997) 17

## **Tidal cycles**

Practical improvements for redox potential (E<sub>H</sub>) measurements and the application of a multiple-electrode redox probe (MERP) for characterising sediment in situ, 367 (1998) 201

## Timber extracts

Thermal lens spectrometric determination of hexavalent chromium, 330 (1996) 245

Thermal lens spectrometric determination of hexavalent chromium, 330 (1996) 245

## Time domain NMR

Spin-spin relaxation time determination of intermediate states in heterogeneous products from free induction decay NMR signals, 349 (1997) 339

## Time window

Multivariate curve resolution analysis of voltammetric data obtained at different time windows: study of the system Cd<sup>2+</sup>-nitrilotriacetic acid, 371 (1998) 23

## Time-different intermediate precision

Comparison of alternative measurement methods, 391 (1999) 203

# Time-of-flight mass spectrometry

Delayed extraction for improved resolution of ion/surface collision products by time-of-flight mass spectrometry, 397 (1999) 225

## Time-of-flight secondary ion mass spectrometry

Time-of-flight secondary ion mass spectrometry of industrial materials, 393 (1999) 201

## Time-resolved

New compact Echelle spectrographs with multichannel timeresolved recording capabilities, 380 (1999) 353

## Time-resolved fluorescence

Immunoassay on a single microparticle: the effect of particle size and number on a miniaturized time-resolved fluorometric assay of free prostate-specific antigen, 387 (1999) 11

# Time-resolved thermal lens spectrometry

Investigation of fluorescence efficiency in the europium-thenoyltrifluoroacetone chelate in aqueous and ethanolic solutions by laser-induced fluorescence and photothermal spectroscopic methods, 317 (1995) 343

## Timolol

Electroanalytical study and square wave voltammetric techniques for the determination of β-blocker timolol at the mercury electrode, 389 (1999) 225

### TIMS

Sampling aerosols for lead isotopes on a global scale, 390 (1999) 227

### Tin

Time-based device used for the determination of tin by hydride generation flow injection atomic absorption techniques, 308 (1995) 339

Determination of tin traces in water samples by adsorptive stripping voltammetry, 319 (1996) 19

Photokinetic study of the Rose Bengal B-tin(II) reaction. Determination of tin in metals, 325 (1996) 81

Polarographic determination of Sn(II) in samples containing Sn(IV) such as in 99m-Technetium radiopharmaceutical kits, 332 (1996) 67

Determination of tin in canned fruit juices by stripping potentiometry, 333 (1996) 115

Application of molecular emission cavity analysis to the determination of tin in various samples based on hydride generation, 333 (1996) 295

Anion-exchange resin modified with pyrocatechol violet as a functional resin for retention of Sn(IV), 338 (1997) 231

Supercritical fluid extraction of priority organotin contaminants from biological matrices, 355 (1997) 269

## Tin dioxide

Gas sensing based on the dynamic nonlinear responses of a semiconductor gas sensor: dependence on the range and frequency of a cyclic temperature change, 361 (1998) 93

# Tin oxide gas sensor

Neural network based electronic nose for the classification of aromatic species, 348 (1997) 503

# Tin speciation

Speciation of tin by reversed phase liquid chromatography with inductively coupled plasma mass spectrometric detection, 312 (1995) 141

## Tin tailings

Determination of uranium in tin tailings using 4-(2-pyridylazo) resorcinol by flow-injection analysis, 314 (1995) 51

## Tin(IV) hydroxide

Coprecipitation with tin (IV) hydroxide followed by removal of tin carrier for the determination of trace heavy metals by graphitefurnace atomic absorption spectrometry, 302 (1995) 103

## Tinidazole

Simple spectrophotometric determination of tinidazole in formulation and serum, 340 (1997) 241

Separation and estimation of diloxanide furoate and metronidazole in solid dosage form using packed column supercritical fluid chromatography, 354 (1997) 123

## Tin-oxide semiconductor gas sensors

Portable battery-powered flow injection analyser for volatile alcohols using semiconductor gas sensors, 321 (1996) 61

### TiO2

Application of TiO<sub>2</sub> sol for UV radiation measurements, 311 (1995) 115

### TIRE

Optical immunoprobe development for multiresidue monitoring in water, 362 (1998) 69

### Tissue

In vivo glucose monitoring with open microflow – influences of fluid composition and preliminary evaluation in man, 385 (1999)

### Tissue reactions

Methods and issues in microdialysis calibration, 379 (1999) 337

## Tissue-type plasminogen activator (t-PA)

Intelligent peptide-mapping method for recombinant human tissuetype plasminogen activator by lysyl-endopeptidase digestion, 365 (1998) 241

### Titanium

Determination of trace titanium in KH<sub>2</sub>PO<sub>4</sub> by differential pulse adsorption voltammetry, 306 (1995) 225

Improved titanium method for determination of atmospheric H<sub>2</sub>O<sub>2</sub>, 315 (1995) 225

### Titanium dioxide

The use of titanium dioxide as a photo-catalyst to improve the sensitivity of post-column photolysis-electrochemical detection for microbore liquid chromatography, 356 (1997) 177

Determination of hydrogen peroxide using a potassium hexacyanoferrate(III) modified titanium dioxide electrode, 358 (1998)

# Titanium dioxide white pigment

Linear and non-linear multivariate analysis in the quality control of industrial titanium dioxide white pigment, 348 (1997) 87

## Titrant

Pseudo-nonionic complexes as a new approach to the determination of ionic amphiphilic substances, 384 (1999) 105

## Titration end point

Effect of organic acids on the determination of carbonate species in solutions, 318 (1996) 239

## Titrations

Consecutive titrations under non-equilibrium conditions. A new mode of automatic titration, 355 (1997) 85

New developments in coulometric titrations. Non-isolated counter electrodes, 359 (1998) 115

A compact titration configuration for process analytical applications, 378 (1999) 211

## Titrimetric methods

Titration of low levels of Fe<sup>2+</sup> with electrogenerated Ce<sup>4+</sup>, 392 (1999) 307

Consecutive titrations under non-equilibrium conditions. A new mode of automatic titration, 355 (1997) 85

### Titrimetry

Rapid determinations of complexing stability constants by gradient flow-injection titration, 302 (1995) 97

Determination of mixed metal ions by complexometric titration and nonlinear partial least squares calibration, 304 (1995) 217

Stoichiometry of superconducting YBa<sub>2</sub>Cu<sub>3</sub>O<sub>y</sub> A comparison of methods for the determination of the Cu(I):Cu(II) ratio, 304 (1995) 223

Linear flow gradients for automatic titrations, 308 (1995) 67

Determination of sulfuric acid in metallurgical process streams by discontinuous flow analysis, 308 (1995) 197

Continuous flow titration system for the generation of multivariate spectrophotometric data in the study of acid-base equilibria, 312 (1995) 189

Binary search in flow titration employing photometric end-point detection, 313 (1995) 177

Automated conductometry: robotic station for analytical titrations, 317 (1995) 127

Solid based titrimetry, 318 (1996) 373

Theory of the surface acoustic wave/impedance sensor system and its application to the end-point determination in titrimetry, 320 (1996) 245

Determination of oxidic impurities in some lead halides, 355 (1997) 171

### TLC

Thin layer chromatographic and electrophoretic study of mixed chloro-thiocyanato and chloro-selenocyanato complexes of platinum(IV), 391 (1999) 315

## TNT

In situ detection of trinitrotoluene and other nitrated explosives in soils, 341 (1997) 63

Remote electrochemical sensor for monitoring TNT in natural waters, 361 (1998) 85

A strategy to validate immunoassay test kits for TNT and PAHs as a field screening method for contaminated sites in Germany, 376 (1998) 3

Multi-analyte explosive detection using a fiber optic biosensor, 399 (1999) 13

## Tobacco

Analysis of solid samples using supported liquid membranes: a method for the evaluation of the release of nicotine from Swedish snuff, 387 (1999) 155

## Tobacco analysis

Fourier-transform infrared determination of nicotine in tobacco samples by transmittance measurements after leaching with CHCl<sub>3</sub>, 373 (1998) 63

## α-Tocopherol

On-line electrochemistry-liquid chromatography with UV absorbance detection for elucidating the electrochemical oxidation mechanism of α-tocopherol in methanol, 309 (1995) 111

## Toluene

Toward development of a humidity correction algorithm for surface acoustic wave sensors Part 4. The effect of coating mass, relative humidity and temperature on the isosteric heat of adsorption of benzene, toluene, 2-nitrotoluene and 2,4-dinitrotoluene onto platinum/lead-coated piezoelectric crystals, 343 (1997) 215

Multicomponent gas analysis of a mixture of chloroform, octane and toluene using a piezoelectric quartz crystal sensor array, 393 (1999) 67

### Toluene media

Flow injection analysis of copper diethyldithiocarbamate in high resistance toluene media using a microelectrode detector, 340 (1997) 169

### **Toluidine Blue O**

Amperometric glyceride biosensor, 330 (1996) 159

Amperometric peroxide sensor based on horseradish peroxidase and toluidine blue *O*-acrylamide polymer in carbon paste, 373 (1998) 241

## 6-Toluidinylnaphthalene-2-sulfonate

Solid-substrate and micellar-stabilized room temperature phosphorescence of two anilinonaphthalenesulfonates, 322 (1996) 91

## Topological analysis

Study of the influence of N-benzylideneanilines conformation on retention in normal phase liquid chromatography, 356 (1997) 187

## Topological code

Computer-assisted IR spectra prediction – linked similarity searches for structures and spectra, 348 (1997) 327

## Topological indices

Structure-property relationship between half-wave potentials of organic compounds and their topology, 316 (1995) 39

A new topological index for the Changchun Institute of Applied Chemistry <sup>13</sup>C NMR information system, 318 (1995) 117

Quantitative structure-property relationships for colour reagents and their colour reactions with ytterbium using regression analysis and computational neural networks, 321 (1996) 97

Prediction of the selectivity coefficients of a berberine selective electrode using artificial neural networks, 349 (1997) 283

The neural network MolNet prediction of alkane enthalpies, 384 (1999) 271

## ToPro-3

A strategy for the broad range detection of compounds with affinity for nucleic acids, 347 (1997) 79

## Total and volatile acidity

Sequential determination of total and volatile acidity in wines based on a flow injection-pervaporation approach, 381 (1999)

## Total bilirubin

Fluorescence reaction of bilirubin with zinc ion in dimethyl sulfoxide and its application to assay of total bilirubin in serum, 365 (1998) 177

## Total carbon

Microwave vacuum drying of marine sediment: determination of moisture content, metals and total carbon, 342 (1997) 247

### Total carbonate

Simultaneous determination of common inorganic anions, magnesium and calcium ions in various environmental waters by indirect UV-photometric detection ion chromatography using trimellitic acid-EDTA as eluent, 373 (1998) 189

## Total carbonyls

Flow injection spectrophotometric determination of total carbonyls in hydrocarbons by reaction with vanillin, 351 (1997) 281

## Total CO:

pH, alkalinity and total CO<sub>2</sub> in coastal seawater by potentiometric titration with a difference derivative readout, 394 (1999) 101

## Total filterable phosphorus and total phosphorus

Procedures for the storage and digestion of natural waters for the determination of filterable reactive phosphorus, total filterable phosphorus and total phosphorus, 375 (1998) 5

## Total inorganic carbon

Experimental evidence that hydroxyethylcarbamic acid is not a major product of the reaction between hydroxyethylamine and CO<sub>2</sub> in the presence of water, 356 (1997) 93

## Total inorganic carbonate

A novel gas-diffusion/flow-injection system coupled with a bulk acoustic wave impedance sensor for total inorganic carbonate and its application to determination of total inorganic and total organic carbon in waters, 349 (1997) 143

# Total internal reflectance fluorescence

Time-resolved, total internal reflection fluorescence microscopy of cultured cells using a Tb chelate label, 307 (1995) 403

## Total internal reflection

Planar waveguide ion-selective sensors, 353 (1997) 1

## Total lead

Anodic stripping voltammetric determination of total lead in anencephalic fetuses after pressure/temperature-controlled microwave mineralization, 317 (1995) 311

## Total luminescence spectroscopy

Evaluation of total luminescence data with chemometrical methods: a tool for environmental monitoring, 356 (1997) 61

## Total mercury determination

Spectrofluorimetric method for the determination of the total mercury content in sediment and soil, 355 (1997) 151

## Total microcystin

Total microcystin determination using *erythro*-2-methyl-3-(methoxy-d<sub>3</sub>)-4-phenylbutyric acid (MMPB-d<sub>3</sub>) as the internal standard, 386 (1999) 107

## Total nitrogen

Total nitrogen determination by flow injection using on-line microwave-assisted digestion, 351 (1997) 273 Measurement of dissolved total nitrogen in wastewater by UV photooxidation with peroxodisulphate, 389 (1999) 267

## Total organic carbon

A novel gas-diffusion/flow-injection system coupled with a bulk acoustic wave impedance sensor for total inorganic carbonate and its application to determination of total inorganic and total organic carbon in waters, 349 (1997) 143

## Total phenol

Flow injection spectrophotometric determination of total phenols using a crude extract of sweet potato root (*Ipomoea batatas* (L.) Lam.) as enzymatic source, 366 (1998) 111

# Total reflection X-ray fluorescence

Multivariate experimental methodology for the evaluation of sample preparation techniques used in simultaneous multielemental analysis using total reflection X-ray fluorescence spectroscopy, 376 (1998) 145

## Total youden blank

Detection and elimination of the constant error component and the interactive matrix interference in the determination of adsorbable organic halogen (AOX) in bleached kraft paper pulp mill effluents, 333 (1996) 139

### Toxic interactions

Toxic interactions between clozapine and ampicillin, 319 (1996) 353

## Toxic metals

Speeding up of a three-stage sequential extraction method for metal speciation using focused ultrasound, 360 (1998) 35

# Toxicity

Study of structure-toxicity relationship by a counterpropagation neural network, 384 (1999) 319

## Toxins

Chromatography of microcystins, 352 (1997) 277

Development of a bioanalytical phosphatase inhibition test for the monitoring of microcystins in environmental water samples, 394 (1999) 243

# Trace analysis

Digital filtering in stripping analysis, 305 (1995) 165

Determination of traces of copper by anodic stripping voltammetry after its preconcentration via an ion-exchange route at carbon paste electrodes modified with vermiculite, 305 (1995) 176

Determination of trace titanium in KH<sub>2</sub>PO<sub>4</sub> by differential pulse adsorption voltammetry, 306 (1995) 225

Trace level analysis of volatile and semi-volatile organic compounds in water using a membrane/jet separator interfaced to an ion trap mass spectrometer, 310 (1995) 387

Analysis of ammonia and methylamines in natural waters by flow injection gas diffusion coupled to ion chromatography, 316 (1995) 291

Determination of trace gallium by derivative adsorption chronopotentiometry, 318 (1996) 181

Trace analysis of neutral organic species using thin-layer electrochemistry, 321 (1996) 195

- Determination of trace impurities in tantalum by inductively coupled plasma mass spectrometry after removal of the matrix by liquid-liquid extraction, 329 (1996) 153
- Gradient elution liquid chromatography-infrared spectrometry at µg I<sup>-1</sup> level using capillary column switching and addition of a make-up liquid. A preliminary study, 342 (1997) 151
- Determination of ultratrace iron in KH<sub>2</sub>PO<sub>4</sub> by derivative adsorption chronopotentiometry, 347 (1997) 257
- Determination of trace adenine, adenosine and adenosine monophosphate by 2nd-order derivative adsorption chronopotentiometry, 347 (1997) 263
- Trace element profile of semiconductor materials: Gallium and arsenic, 370 (1998) 91
- Determination of sub-nanomolar concentrations of lead by anodicstripping voltammetry at the silver electrode, 385 (1999) 325
- A new derivatization reagent 2-(pentafluorophenoxy)ethyl 2-(piperidino)ethanesulfonate for gas chromatography, 386 (1999) 113
- Determination of sub-µg l<sup>-1</sup> concentrations of copper by anodic stripping voltammetry at the gold electrode, 387 (1999) 85
- Amperometric gas sensors with detection limits in the low ppb range, 393 (1999) 43
- Affinity liquid membrane introduction mass spectrometry, 395 (1999) 239

## Trace copper(II)

On-line monitoring of trace amounts of copper(II) in steam condensate and boiler feed-water by flow injection analysis based on its catalytic effect on the oxidation of hydroquinone by hydrogen peroxide, 331 (1996) 257

## Trace determination

Investigation of a new reaction for the determination of microquantities of sulfite in some inorganic salts, 357 (1997) 239

Kinetics based determination of trace amounts of silver at the excess of copper ions, 394 (1999) 185

# Trace element analysis

Determination of tin in canned fruit juices by stripping potentiometry, 333 (1996) 115

Multielement instrumental activation analysis based on gammagamma coincidence spectroscopy, 386 (1999) 181

## Trace element characterization

Trace element characterization of high purity gallium, 318 (1996)

## Trace element determination

Determination of trace elements in sea weed samples by inductively coupled plasma mass spectrometry, 355 (1997) 121

Determination of trace elements in shellfish tissue samples by inductively coupled plasma mass spectrometry, 382 (1999) 215

## Trace element screening

Inhibition behavior of acid phosphatase, phosphodiesterase I and adenosine deaminase as tools for trace metal analysis and speciation, 360 (1998) 101

## Trace elements

Scanning electron microscopy with energy-dispersive electron probe X-ray analysis investigation of a sequential extraction

- scheme for copper, chromium, iron and aluminium speciation in marine suspended particulate matter, 306 (1995) 149
- Column solid phase extraction as preconcentration method for trace element determination in oxalic acid by atomic absorption spectrometry and inductively coupled plasma atomic emission spectrometry, 307 (1995) 71
- Determination of trace elements in human serum by inductively coupled plasma atomic emission spectrometry with flow injection, 320 (1996) 185
- Microtechniques for the determination of nanomolar concentrations of trace elements in  $\leq 10$  ml of sediment porewater, 328 (1996)
- Extraction as a method for preparation of vegetable samples for the determination of trace metals by atomic absorption spectrometry, 330 (1996) 251
- Column solid-phase extraction of heavy metal ions on a high surface area CeO<sub>2</sub> as a preconcentration method for trace determination, 336 (1996) 141
- Assessment of the content of selected trace elements in serum of term and pre-term newborns by inductively coupled plasma mass spectrometry, 342 (1997) 75
- Behaviour of matrix cations (Ca<sup>2+</sup>, K<sup>+</sup>, Mg<sup>2+</sup> and Na<sup>+</sup>) during online preconcentration and atomic spectrometric detection of trace metals in natural waters, 351 (1997) 311
- Evaluation of the acetate buffer attack of a sequential extraction scheme for marine particulate metal speciation studies by scanning electron microscopy with energy dispersive X-ray analysis, 360 (1998) 27
- Determination of trace elements in seawater by fluorinated metal alkoxide glass-immobilized 8-hydroxyquinoline concentration and high-resolution inductively coupled plasma mass spectrometry detection, 363 (1998) 11
- Empirical modelling of interferences in electrothermal atomization atomic absorption spectrometry, 376 (1998) 293
- Comparison of two digestion methods for elemental determinations in plant material by ICP techniques, 378 (1999) 191
- A micro-scale mercury cathode electrolysis procedure for on-line flow injection inductively coupled plasma mass spectrometry trace elements analysis in steel samples, 389 (1999) 247

## Trace gases

Evaluation of a seawater equilibrator for shipboard analysis of dissolved oceanic trace gases, 395 (1999) 119

## Trace impurities

Determination of ultra-trace impurities in semiconductor-grade water and chemicals by inductively coupled plasma mass spectrometry following a concentration step by boiling with mannitol, 377 (1998) 47

## Trace levels

Analysis of trace level peptides using capillary electrophoresis with UV laser-induced fluorescence, 307 (1995) 163

## Trace measurement

Trace measurement of dithiocarbamate based pesticide by adsorptive stripping voltammetry, 388 (1999) 111

## Trace metal analysis

- A mechanized system for the determination of low levels of quickly reacting aluminium in natural waters, 306 (1995) 173
- Determination of copper in natural waters by batch and oscillating flow injection stripping potentiometry, 330 (1996) 79
- Application of microwave digestion to trace organoelement determination in water samples, 374 (1998) 209

#### Trace metal determination

On-line trace metal determination by pre-concentration on immobilized 8-quinolinol with flow recycling anodic stripping voltammetry, 339 (1997) 155

### Trace metal distribution

Comparison of two sequential extraction procedures for metal fractionation in sediment samples, 359 (1998) 133

#### Trace metal monitoring

On-line voltammetric monitoring of dissolved Cu and Ni in the Gulf of Cadiz, south-west Spain, 377 (1998) 205

#### Trace metal separation

Hollow fiber membrane chromatography: A novel analytical system for trace metal separation, 369 (1998) 17

#### Trace metals

- Determination of trace metals in natural waters by flame atomic absorption spectrometry following on-line ion-exchange preconcentration, 303 (1995) 341
- In-flow speciation of copper, zinc, lead and cadmium in fresh waters by square wave anodic stripping voltammetry Part II. Optimization of measurement step, 305 (1995) 183
- Anodic stripping voltammetry of trace metals by batch injection analysis, 322 (1996) 151
- Automated trace enrichment and determination of metals using a combination of supported liquid membrane for sample pretreatment and graphite furnace atomic absorption spectrometry for the determination, 327 (1996) 295
- Mercury-plated iridium-based microelectrode arrays for trace metals detection by voltammetry: optimum conditions and reliability, 329 (1996) 203
- A new mercury drop electrode for trace metal analysis, 339 (1997) 147
- On the suppression of zinc-copper interactions in square wave anodic stripping voltammetry in flowing solution by addition of gallium ions, 339 (1997) 167
- Xenon tetrafluoride as a decomposition agent for silicone rubber for isolation and atomic emission spectrometric determination of trace metals, 340 (1997) 1
- Passive monitoring of trace metals in water by in situ sample preconcentration via chelation on a textile based solid sorbent, 341 (1997) 229
- Reproducibility testing of a sequential extraction scheme for the determination of trace metal speciation in a marine reference sediment by inductively coupled plasma-mass spectrometry, 342 (1997) 91
- Hollow fiber based supported liquid membrane: a novel analytical system for trace metal analysis, 350 (1997) 183

- Solid electrodes from refractory powder materials prepared for electroanalytical purposes by a novel method, 364 (1998) 181
- Chemical separation and inductively coupled plasma-atomic emission spectrometric determination of seventeen trace metals in thorium oxide matrix using a novel extractant – Cyanex-923, 370 (1998) 163
- Use of a certified reference material for extractable trace metals to assess sources of uncertainty in the BCR three-stage sequential extraction procedure, 382 (1999) 317
- Microelectrode arrays: application in batch-injection analysis, 385 (1999) 257
- Stripping analysis into the 21st century: faster, smaller, cheaper, simpler and better, 385 (1999) 429
- The effect of freshwater UV-irradiation prior to resin preconcentration of trace metals, 386 (1999) 155
- Diffusional characteristics of hydrogels used in DGT and DET techniques, 398 (1999) 329
- 200 years of practical electroanalytical chemistry: past, present and future directions illustrated by reference to the on-line, on-stream and off-line determination of trace metals in zinc plant electrolyte by voltammetric and potentiometric techniques, 400 (1999) 333
- Stripping voltammetry for the determination of trace metal speciation and in-situ measurements of trace metal distributions in marine waters, 400 (1999) 381

## Trace rhodium determination

Third derivative spectrophotometric determination of trace rhodium after pre-concentration with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol chelate/tetraphenylborate ion pair on microcrystalline naphthalene, 382 (1999) 339

## Traceability

- Measuring SI-traceable nitrate concentrations in water by a primary method of measurement, isotope dilution mass spectrometry, 346 (1997) 3
- SI-traceable values for cadmium and lead concentration in the candidate reference material, MURST-ISS A1 Antarctic sediment, by combination of ICP-MS with isotope dilution, 346 (1997) 17
- Estimating uncertainties of analytical results using information from the validation process, 391 (1999) 173

# Trace-level identity confirmation

Trace-level identity confirmation from infrared spectra by library searching and artificial neural networks, 345 (1997) 173

#### Tracers

Enzyme-immunoassays for polychlorinated biphenyls: structural aspects of hapten-antibody binding, 347 (1997) 163

#### Training set selection

Selecting a representative training set for the classification of demolition waste using remote NIR sensing, 392 (1999) 67

#### Trans-\u00e3-carotene

Monitoring supercritical fluid extraction by thermal lens spectrometry with pulsed laser excitation, 390 (1999) 163

#### Transcutaneous

Transcutaneous lactate monitoring based on a micro-planar amperometric biosensor, 312 (1995) 323

## Transdermal drug delivery

On-line coupling of in vivo microdialysis with capillary electrophoresis/electrochemistry, 379 (1999) 307

#### Transduction

Electrochemical investigation of transduction of interactions of aflatoxin M<sub>1</sub> with bilayer lipid membranes (BLMs), 350 (1997) 121

#### Transfer

Stability of preplated mercury coated platinum and carbon fibre microelectrodes, 327 (1996) 211

## Transflection probe

Ionophores, ligands and reactands, 400 (1999) 65

#### Transient parameters

Enhanced selectivity of MOSFET gas sensors by systematical analysis of transient parameters, 353 (1997) 291

## Transient Raman scattering

Data analysis techniques for monitoring excited state kinetics, 348 (1997) 311

#### Transition metal ions

Capillary electrophoretic separation of several transition-metal ions as their complexes with 1,10-phenanthroline derivatives and its application to the determination of copper in duralmin alloys, 364 (1998) 75

γ-Aminobutyrohydroxamate resins as stationary phases of chelation ion chromatography, 369 (1998) 225

Specific separation of nickel ion with bathophenanthroline disulfonic acid by capillary zone electrophoresis, 396 (1999) 117

## Transition metal(II) cations

Ion-pair extraction behavior of transition metal(II) cations as charged complexes with ethylenediamine derivatives having heterocyclic pendant arms, 339 (1997) 115

## Transition metals

Characterization of supported and unsupported transition metal compounds by liquid secondary ion mass spectrometry, 346 (1997) 223

Application of Kalman filtering to multivariate calibration and drift correction, 388 (1999) 315

## Transition probability

Choosing reference samples for EPR concentration measurements.

Part 1. General introduction and systems of S=12, 339 (1997)

Choosing reference samples for EPR concentration measurements. Part 2. Systems of S=1, 339 (1997) 13

Choosing reference samples for EPR concentration measurements. Part 3. Systems of S=32, 339 (1997) 31

Choosing reference samples for EPR concentration measurements. Part 4. Systems of S=52, 339 (1997) 53

## Transmembrane gas diffusion

Analysis of ammonia and methylamines in natural waters by flow injection gas diffusion coupled to ion chromatography, 316 (1995) 291

#### Transmission density

NIST transmission density instrument, 380 (1999) 143

#### Transmittance

Challenges in providing standard reference materials for chemical and pharmaceutical process analysis, 380 (1999) 115

Infrared regular reflectance and transmittance instrumentation and standards at NIST, 380 (1999) 303

High-accuracy measurement of specular spectral reflectance and transmittance, 380 (1999) 317

Characterisation of optical detectors using high-accuracy instruments, 380 (1999) 327

### Transmittance measurement

Study of the performance of an optochemical sensor for ammonia, 320 (1996) 235

#### Transmittance standards

The absolute calibration of mid-infrared transmittance standards, 380 (1999) 127

#### Trans-resveratrol

Determination of *trans*-resveratrol and other polyphenols in wines by a continuous flow sample clean-up system followed by capillary electrophoresis separation, 359 (1998) 27

## Transverse heated graphite furnace atomic absorption spectrometry

Determination of trace impurities in high purity gallium by inductively coupled plasma mass spectrometry and cross validation of results by transverse heated graphite furnace atomic absorption spectrometry, 371 (1998) 305

#### Trap detector

Characterisation of optical detectors using high-accuracy instruments, 380 (1999) 327

#### Trehalos

A disposable reagentless screen-printed amperometric biosensor for the measurement of alcohol in beverages, 329 (1996) 215

# Triacylglycerol analysis

Precise classification of virgin olive oils with various linoleic acid contents based on triacylglycerol analysis, 364 (1998) 83

# Triamterene

Direct determination of triamterene in urine by matrix isopotential synchronous fluorescence spectrometry, 326 (1996) 117

# Triazene reagent

Synthesis of a new triazene reagent and its application for the determination of silver(I) by the Rayleigh light-scattering, 388 (1999) 45

#### Triazine herbicides

An immunoarray for the simultaneous determination of multiple triazine herbicides, 304 (1995) 339

An approach to the construction of an immunoarray for differentiating and quantitating cross reacting analytes, 319 (1996) 291

Microextraction procedures combined with large volume injection in capillary gas chromatography for the determination of pesticide residues in environmental aqueous samples, 356 (1997) 125

Highly parallel affinity sensor for the detection of environmental contaminants in water, 393 (1999) 29

#### Triazine-based azo dyes

Polarographic and voltammetric determination of selected triazinebased azo dyes with different reactive groups, 320 (1996) 31

#### **Triazines**

Membrane extraction-preconcentration cell coupled on-line to flowinjection and liquid chromatographic systems. Determination of triazines in oils, 304 (1995) 323

Validation of commercially available ELISA microtiter plates for triazines in water samples, 311 (1995) 331

Enzyme immunoassays for s-triazine herbicides and their application in environmental and food analysis, 311 (1995) 349

Determination of triazines in surface waters by membrane separation coupled on-line to a flow-injection system and partial least squares regression, 321 (1996) 147

Simultaneous analysis of the antifouling agents: tributyltin, triphenyltin and IRGAROL 1051 in marina water samples, 335 (1996) 267

Trace determination of triazine herbicides by means of coupledcolumn liquid chromatography and large volume injection, 338 (1997) 223

Effects of parameters on microwave assisted extraction of triazines from soil: evaluation of an optimisation trajectory, 348 (1997)

Occurrence of triazine herbicides and metolachlor in the Niagara River and other major tributaries draining into Lake Ontario, 376 (1998) 113

#### 1.2.4.-Triazines

Chromogenic reagents for iron(II): studies in the 1,2,4-triazine series, 322 (1996) 203

#### 1.2.4-Triazole

Very fast peroxyoxalate chemiluminescence, 400 (1999) 257

#### Triazoles

Analysis of copper corrosion inhibitors by capillary zone electrophoresis, 321 (1996) 215

#### Triazophos

Resolution of overlapping peaks in HPLC with diode array detection by application of partial least squares calibration to cross-sections of spectrochromatograms, 348 (1997) 177

#### **Tribromide**

High selective determination of bromate in ozonized water by using ion chromatography with postcolumn derivatization equipped with reagent preparation device, 346 (1997) 299

## Tributyl phosphate

Rapid determination of chemical oxygen demand by a semi-automated method based on microwave sample digestion, chromium(VI) organic solvent extraction and flame atomic absorption spectrometry, 372 (1998) 399

#### Tributyltin

Liquid chromatographic determination of triphenyltin and tributyltin using fluorimetric detection, 314 (1995) 175

Simultaneous determination of tributyltin and triphenyltin cations by capillary isotachophoresis with potential-gradient detector for direct detection, 383 (1999) 205

# Tricaprylylmethylammonium chloride (Aliquat 336 ")

Selective separation and concentration of vanadium(V) by a chemical pumping hollow-fiber supported liquid membrane, 349 (1997) 171

## 2,4,6-Trichlorophenol

An electrocatalytic approach for the measurement of chlorophenols, 327 (1996) 235

## 2,4,5-trichlorophenoxyacetic acid

The specific immunochemical detection of 2.4-dichlorophenoxyacetic acid and 2.4,5-trichlorophenoxyacetic acid pesticides by amperometric cholinesterase biosensors, 347 (1997) 71

Quantification of 2.4,5-trichlorophenoxyacetic acid by fluorescence enzyme-linked immunosorbent assay with secondary antibody, 378 (1999) 219

Pesticide determination by stopped-flow fluoroimmunoassay using Cresyl Violet as label, 381 (1999) 147

## 3,5,6-trichloro-2-pyridinol

Development of immunoassays for the analysis of chlorpyrifos and its major metabolite 3,5,6-trichloro-2-pyridinol in the aquatic environment, 311 (1995) 341

Automated immunosensing system for 3,5,6-trichloro-2-pyridinol. Application to surface water samples, 392 (1999) 113

#### Triclosar

Gas chromatography-mass spectrometry determination of triclosans in water, sediment and fish samples via methylation with diazomethane, 325 (1996) 175

Electrochemical behaviour of triclosan at a screen-printed carbon electrode and its voltammetric determination in toothpaste and mouthrinse products, 390 (1999) 107

## Tricresyl phosphate

Tris(2-ethylhexyl) phosphate and tricresyl phosphate as new neutral carriers for organic ammonium ion-selective membrane electrodes, 354 (1997) 301

# Trifluoroacetic acid

Separation of sets of mono- and diphosphorylated peptides by reversed-phase high performance liquid chromatography, 352 (1997) 327

Evaluation of trifluoroacetic acid as an ion-pair reagent in the separation of small ionizable molecules by reversed-phase liquid chromatography, 399 (1999) 249

## Trifluoroalkyl groups

Novel membrane material for ion-selective field-effect transistors with extended lifetime and improved selectivity, 335 (1996) 103

## 2-(Trifluoromethyl)acrylic acid

2-(Trifluoromethyl)acrylic acid: a novel functional monomer in non-covalent molecular imprinting, 343 (1997) 1

## **Triglycerides**

Amperometric glyceride biosensor, 330 (1996) 159

Application of electrophoretic techniques to the diagnosis of disorders of lipoprotein metabolism. Examples at the levels of lipoproteins and apolipoproteins, 383 (1999) 169

## Trigonelline

Fluorometric determination of N<sup>1</sup>-methylnicotinamide in human urine and serum by liquid chromatography postcolumn photoirradiation with a mobile phase containing 18-crown-6, 363 (1998) 133

#### Trihydroxyanthroquinone

Study of the reaction between nucleic acids and the trihydroxyanthroquinone-Al complex and its analytical application, 392 (1999) 291

## 3α,7α,24-Trihydroxy-5β-cholestan-26-oyl CoA

Separation of stereoisomers of C<sub>27</sub>-bile acid CoA esters by liquid chromatography and its application to the study of the stereospecificities of D- and L-bifunctional proteins in bile acid biosynthesis, 365 (1998) 249

#### Triiodide

Hexadecylpyridinium chloride micelles for the simultaneous kinetic determination of cysteine and cystine by their induction of the iodine-azide reaction, 337 (1997) 341

## 3,3',5-triiodo-L-thyronine

Flow-injection- and sequential-injection immunoassay for triiodothyronine using acridinium ester chemiluminescence detection, 398 (1999) 183

#### Trilinear models

Rapid estimation of rate constants using on-line SW-NIR and trilinear models, 376 (1998) 339

# Trimellitic acid-EDTA eluent

Simultaneous determination of common inorganic anions, magnesium and calcium ions in various environmental waters by indirect UV-photometric detection ion chromatography using trimellitic acid-EDTA as eluent, 373 (1998) 189

## Trimethoprim

Simultaneous determination of sulfadiazine, doxycycline, furaltadone and trimethoprim by partial least squares multivariate calibration, 313 (1995) 103

Determination of multicomponent dissolution profiles of pharmaceutical products by in situ fiber-optic UV measurements, 345 (1997) 155

Partial least squares method in the analysis by square wave voltammetry. Simultaneous determination of sulphamethoxypyridazine and trimethoprim, 349 (1997) 303

Electroanalytical study of salazosulfapyridine and biseptol components at the mercury electrode, 353 (1997) 61 Separation and determination of the active ingredients in tablets of composite sulphonamides by capillary zone electrophoresis with amperometric detection, 386 (1999) 265

## Trimethoxyphenylglyoxal

A chemiluminescence derivatization method for detecting nucleic acids and DNA probes using a trimethoxyphenylglyoxal reagent that recognizes guanine, 381 (1999) 155

## Trimethylamine

Determination of trimethylamine in fish by flow injection analysis, 321 (1996) 69

Chemiluminescence measurement of tertiary amines using the continuous-addition-of-reagent technique. Determination of trimethylamine in fish samples, 356 (1997) 51

# Trimethylamine oxide

Determination of trimethylamine oxide in seawater and small volumes of seafood tissue extract using flow injection analysis, 334 (1996) 279

## Trimethylselenonium ion

Determination of trimethylselenonium ion by flow injection hydride generation atomic absorption spectrometry, 398 (1999) 273

## 2,4,6-Trinitrobenzenesulphonic acid

Sequential-injection spectrophotometric determination of amino acids using 2,4,6-trinitrobenzenesulphonic acid, 369 (1998) 163

#### Trinitrotoluene

In situ detection of trinitrotoluene and other nitrated explosives in soils, 341 (1997) 63

Highly parallel affinity sensor for the detection of environmental contaminants in water, 393 (1999) 29

Dip-and-read test strips for the determination of trinitrotoluene (TNT) in drinking water, 396 (1999) 309

#### Tripeptides

Acid-base behaviour of tripeptides in solvents used in liquid chromatography. Correlation between pK values and solvatochromic parameters of acetonitrile-water mixtures, 347 (1997) 295

## Triphenyltin

Determination of triphenyltin in sea water samples by liquid chromatography with fluorimetric detection, 302 (1995) 185

Liquid chromatographic determination of triphenyltin and tributyltin using fluorimetric detection, 314 (1995) 175

Simultaneous determination of tributyltin and triphenyltin cations by capillary isotachophoresis with potential-gradient detector for direct detection, 383 (1999) 205

# Tris(2,2'-bipyridyl)ruthenium(II)

Determination of codeine in process streams using flow-injection analysis with chemiluminescence detection, 318 (1996) 309

Determination of glyphosate and related compounds using HPLC with tris(2,2'-bipyridyl)ruthenium(II) electrogenerated chemiluminescence detection, 341 (1997) 195

#### Tris(2,2'-bipyridyl)ruthenium(III)

Analytical applications of tris(2,2'-bipyridyl)ruthenium(III) as a chemiluminescent reagent, 378 (1999) 1

Two chemical approaches for the production of stable solutions of tris(2,2'-bipyridyl)ruthenium(III) for analytical chemiluminescence, 388 (1999) 1

## Tris(2-ethylhexyl) phosphate

Tris(2-ethylhexyl) phosphate and tricresyl phosphate as new neutral carriers for organic ammonium ion-selective membrane electrodes, 354 (1997) 301

## Tritiated water

Improved technique for the routine determination of tritiated water in aqueous samples, 382 (1999) 225

#### Triton biocompatibility

Surfactant-modified poly(vinyl chloride) membranes as biocompatible interfaces for amperometric enzyme electrodes, 350 (1997)

#### Triton X-100

Influence of Triton X-100 in stripping potentiometry, 333 (1996)

Voltammetric studies of anthraquinone dyes adsorbed at a hanging mercury drop electrode using fast pulse techniques, 385 (1999) 287

## Tryptophan

Study on total luminescence spectra. Application of the Monte-Carlo method to three-dimensional synchronous fluorescence spectrometry, 306 (1995) 307

Chemiluminescent determination of tryptophan in a flow injection system, 317 (1995) 233

Hydrolysis of proteins performed at high temperatures and for short times with reduced racemization, in order to determine the enantiomers of D - and L-amino acids, 339 (1997) 99

Electrogenerated chemiluminescence for determination of indole and tryptophan, 341 (1997) 251

#### TSM acoustic wave sensor

Mimicking the olfactory system by a thickness-shear-mode acoustic sensor array, 335 (1996) 117

#### TTX

Do neurotransmitters sampled by brain microdialysis reflect functional release? 379 (1999) 263

#### **Tubing clamp valve**

Low-budget flow-injection device for teaching: A \$10 six-port valve, 366 (1998) 217

#### **Tubular** electrode

An amperometric detector with a tubular electrode deposited on the capillary for capillary liquid chromatography, 360 (1998) 53

## Tubular pH electrode

Automatic potentiometric titration in monosegmented flow system exploiting binary search, 387 (1999) 165

#### Tubulin

Fine separation of protein isoforms with alternative development in two-dimensional electrophoresis, 365 (1998) 267

## Tumor necrosis factor-alpha

Hemoglobin interference with an enzyme-linked immunosorbent assay for the detection of tumor necrosis factor-alpha, 313 (1995) 1

## Tungstate

Interference from chromate, germanate, tungstate and vanadate when determining phosphate in aqueous solution by the phosphoantimonylmolybdenum blue method, 358 (1998) 245

#### Tungsten

Synergetic catalytic effect of molybdate and tungstate on the hydrogen peroxide-iodide system and its analytical applications, 303 (1995) 241

Kinetic spectrophotometric determination of traces of tungsten(VI) by the catalytic reaction of chlorpromazine with hydrogen peroxide. A mechanistic study, 312 (1995) 179

Search for chemical separation of element 106 homologues in HF and HF-HCl media, 332 (1996) 257

#### Tungsten coil atomizer

On-line separation and preconcentration of cadmium, lead and nickel in a fullerene (C<sub>60</sub>) minicolumn coupled to flow injection tungsten coil atomic absorption spectrometry, 368 (1998) 255

# Tungsten metal furnace atomic absorption spectrometry

Adsorption behavior of cobalt(II) on chitosan and its determination by tungsten metal furnace atomic absorption spectrometry, 378 (1999) 279

## Tungsten oxide electrode

Potentiemetric detection of carboxylic acids by flow injection analysis using a tungsten oxide electrode, 332 (1996) 187

Liquid chromatography of carboxylic acids using potentiometric detection with a tungsten oxide electrode, 338 (1997) 41

#### Tungsten(VI)

Kinetic-mechanistic study of the chlorpromazine-hydrogen peroxide reaction catalyzed by molybdenum(VI) and tungsten(VI), and their differential determination, 349 (1997) 43

## Tungsten-coated L'vov platform tube

Determination of gallium by graphite furnace atomic absorption spectrometry with combined use of a tungsten-coated L'vov platform tube and a chemical modification technique, 390 (1999) 201

# Tungstophosphate

Determination of ranitidine in pharmaceutical preparations using manual and flow injection potentiometry and spectrophotometry, 332 (1996) 39

## Tungstosilicate

Determination of ranitidine in pharmaceutical preparations using manual and flow injection potentiometry and spectrophotometry, 332 (1996) 39

#### **Tunnel** emission

Electrochemiluminescent labels for applications in fully aqueous solutions at oxide-covered aluminium electrodes, 386 (1999) 1

# Turbidimetric sequential determination

Turbidimetric flow-injection determination of total nitrogen and potassium in vegetables, 356 (1997) 259

#### Turbidimetry

Crystal seeding in flow-injection turbidimetry: determination of total sulfur in plants, 308 (1995) 269

Continuous kinetic method for the quantitative resolution of structural isomers of arginine and ornithine, 315 (1995) 145

Determination of sulphate in natural waters and industrial effluents by sequential injection analysis, 331 (1996) 271

Continuous-flow discrimination of L- and D-histidine, 375 (1998)

Evolution of the commutation concept associated with the development of flow analysis, 400 (1999) 249

## Turbidity

On-line and off-line monitoring of the production of alkaline serine protease by Bacillus licheniformis, 317 (1995) 247

A liquid drop: A windowless optical cell and a reactor without walls for flow injection analysis, 326 (1996) 13

Derivatized, swellable polymer microspheres for chemical transduction, 400 (1999) 55

#### Turnover frequencies

On the evaluation of turnover frequencies in unicyclic homogeneous catalysis. Experimental, numerical, and statistical aspects, 374 (1998) 67

#### Tween

Surfactant-modified poly(vinyl chloride) membranes as biocompatible interfaces for amperometric enzyme electrodes, 350 (1997) 77

## Tween-20

Synthesis of a new triazene reagent and its application for the determination of silver(I) by the Rayleigh light-scattering, 388 (1999) 45

## Tween 80

Chemiluminescence of sulfite based on auto-oxidation sensitized by rhodamine 6G, 391 (1999) 95

# Two analytes determination

Evaluation and elimination of the blank bias error using the H-point standard additions method (HPSAM) in the simultaneous spectrophotometric determination of two analytes, 348 (1997) 39

## Two dimensional nonlinear mapping

Use of spectral mapping technique for the separation of solvent strength and selectivity on β-cyclodextrin polymer-coated HPLC column using monoamine oxidase inhibitory drugs as solutes, 348 (1997) 197

# Two phase systems

Modulation of the measuring range of a radioimmunoassay using an organic water two phase system, 341 (1997) 269

# Two-dimensional electrophoresis

Fine separation of protein isoforms with alternative development in two-dimensional electrophoresis, 365 (1998) 267

- Procedures leading to primary structure determination of proteins in complex mixtures by gel electrophoresis and modern micro-scale analyses, 372 (1998) 21
- Pore gradient gel electrophoresis: theory, practice, and applications, 372 (1998) 91
- Characterisation of bacterial proteomes by two-dimensional electrophoresis, 372 (1998) 121
- High resolution two-dimensional electrophoresis of human urinary proteins, 372 (1998) 147

## Two-dimensional gel electrophoresis

Evaluation of commonly used electrophoretic methods for the analysis of proteins and peptides and their application to biotechnology, 383 (1999) 47

# Two-dimensional growth

Electrosynthesis of polypyrrole in iodide solution. Film growth, redox behaviour and potentiometric response, 355 (1997) 217

#### Two-phase flow

Approaches to in-line removal of dissolved oxygen in flow systems for process analysis, 332 (1996) 31

#### Two-photon excitation

Simultaneous and consecutive two-photon excited fluorescence detection in conventional-size liquid chromatography, 309 (1995) 135

#### TXRF

Sample collection and preparation for analysis of airborne particulate matter by total reflection X-ray fluorescence spectrometry, 346 (1997) 121

# **Tyndallization**

Assessment of heat treatment for nutrient preservation in seawater samples, 351 (1997) 299

#### Types of variables

Advanced application of rule nets to the automation of chemical analysis systems, 354 (1997) 249

## Tyrosinase

Effects of different additives on a tyrosinase based carbon paste electrode, 305 (1995) 8

Flow-injection analysis of phenols at a graphite electrode modified with co-immobilised laccase and tyrosinase, 308 (1995) 137

Cyro-hydrogel for the construction of a tyrosinase-based biosensor, 319 (1996) 71

Poly(amphiphilic pyrrole)-tyrosinase-peroxidase electrode for amplified flow injection-amperometric detection of phenol, 319 (1996) 145

Flow-through tyrosinase enzyme reactor based on reticulated vitreous carbon functionalized by an electrochemically synthesized film, 326 (1996) 149

A coupled enzymatic assay for salicylate and acetylsalicylate using salicylate hydroxylase and tyrosinase, 335 (1996) 169

Flow injection spectrophotometric determination of sulfite using a crude extract of sweet potato root (*Ipomoea batatas* (L.) Lam.) as a source of polyphenol oxidase, 354 (1997) 51

- Highly sensitive electrochemical determination of Escherichia coli density using tyrosinase-based chemically amplified biosensor, 357 (1997) 51
- Application of a sensitive catechol detector for determination of tyrosinase inhibitors, 362 (1998) 81
- Non-aqueous flow-injection determination of atrazine by inhibition of immobilized tyrosinase, 362 (1998) 187
- Silica sol-gel immobilized amperometric biosensor for the determination of phenolic compounds, 362 (1998) 203
- Flow injection spectrophotometric determination of total phenols using a crude extract of sweet potato root (*Ipomoea batatas* (L.) Lam.) as enzymatic source, 366 (1998) 111
- Flow-injection determination of catechol with a new tyrosinase/ DNA biosensor, 366 (1998) 137
- Improved stability and altered selectivity of tyrosinase based graphite electrodes for detection of phenolic compounds, 387 (1999) 309

#### Tyrosinase electrode

A biosensor as warning device for the detection of cyanide, chlorophenols, atrazine and carbamate pesticides, 311 (1995) 255

#### Tyrosine

Interaction of tyrosine and tyrosine dipeptides with Cu<sup>2+</sup> ions: a fluorescence study, 315 (1995) 217

## Tyrothricin

Individual and joint stopped flow kinetic spectrofluorimetric determination of neomycin and tyrothricin, 303 (1995) 31

# U

## UBASIC

Evidence of axial diffusion accompanied by axial dispersion with zone circulating flow-injection analysis data, 309 (1995) 227

## Ubiquinone-dependent dehydrogenase reactions

Self-driven coulometry of ethanol, d-glucose and d-fructose using ubiquinone-dependent dehydrogenase reactions, 306 (1995) 231

# Ultracentrifugation

Experimental determination of partial specific volumes of humic substances in aqueous solutions, 314 (1995) 149

#### Ultrafiltration

- Automated monitoring of amino acids during fermentation processes using on-line ultrafiltration and column liquid chromatography: application to fermentation medium improvement, 303 (1995) 175
- Hollow fiber cartridges for removal of particulate matter from natural waters prior to matrix isolation and trace metal enrichment using an 8-quinolinol chelating ion exchanger in a flow system, 316 (1995) 305
- Characterization of colloidal particles by laser-induced plasma spectroscopy (LIPS), 346 (1997) 23

- Oxidation and reduction of thymosin  $\beta_4$  and its influence on the interaction with G-actin studied by reverse-phase HPLC and post-column derivatization with fluorescamine, 352 (1997)
- Multimethod characterization of lake aquatic humic matter isolated with sorbing solid and tangential membrane filtration, 364 (1998) 203
- Comparison of microscale cleaning procedures for (Glyco) proteins prior to positive ion matrix-assisted laser desorption ionization mass spectrometry, 372 (1998) 187
- Slow ultrafiltration for continuous in vivo sampling: application for glucose and lactate in man, 379 (1999) 327

# Ultrafine aerosols

On-line and in-situ detection of lead aerosols by plasma-spectroscopy and laser-excited atomic fluorescence spectroscopy, 346 (1997) 37

# Ultramicroelectrodes

- Ultramicroelectrodes in kinetic investigations supported by simulation. A review with some additional examples, 305 (1995) 96
- Ultramicroelectrode study without deliberately added electrolyte: application to the analysis of liquid-liquid extraction processes in dichloromethane, 305 (1995) 137
- A simple current transducer for ultramicroelectrode measurements at a wide range of time scales, 321 (1996) 209
- Scanning electrochemical microscopy: beyond the solid/liquid interface, 385 (1999) 223

## Ultra-pure chemicals

Determination of ultra-trace impurities in semiconductor-grade water and chemicals by inductively coupled plasma mass spectrometry following a concentration step by boiling with mannitol, 377 (1998) 47

# Ultrapure spectral carbon

Application of redox cycling enhanced current at an interdigitated array electrode for iron-trace determination in ultrapure spectral carbon, 305 (1995) 121

# Ultra-pure water

- On-line monitoring of trace amounts of copper(II) in steam condensate and boiler feed-water by flow injection analysis based on its catalytic effect on the oxidation of hydroquinone by hydrogen peroxide, 331 (1996) 257
- Determination of ultra-trace impurities in semiconductor-grade water and chemicals by inductively coupled plasma mass spectrometry following a concentration step by boiling with mannitol, 377 (1998) 47

# Ultrasonic irradiation

Extraction with 8-quinolinol and mixed anionic additives using ultrasonic irradiation for the catalytic determination of vanadium in freshwaters, 310 (1995) 501

# Ultrasonic irradiation effect

Monitoring of the ultrasonic irradiation effect on the extraction of airborne particulate matter by ion chromatography, 317 (1995) 171

#### Ultrasonic nebulization

Determination of selenium compounds in urine samples by liquid chromatography-inductively coupled plasma mass spectrometry with an ultrasonic nebulizer, 307 (1995) 109

Speciation of tin by reversed phase liquid chromatography with inductively coupled plasma mass spectrometric detection, 312 (1995) 141

On-line ion exchange system coupled to inductively coupled plasma atomic emission spectrometer with ultrasonic nebulization for the separation, preconcentration and determination of arsenic(V) and monomethylarsonate, 313 (1995) 243

On-line separation and preconcentration of chromium species in seawater, 325 (1996) 185

Assessment of the content of selected trace elements in serum of term and pre-term newborns by inductively coupled plasma mass spectrometry, 342 (1997) 75

Determination of vanadium species in water samples by liquid chromatography-inductively coupled plasma mass spectrometry, 357 (1997) 211

Selenium speciation with on-column preconcentration high-performance liquid chromatography – atomic fluorescence spectrometry using ultrasonic nebulization technique, 386 (1999) 89

## Ultrasonic slurry sampling

Determination of Cu, Zn, Cd and Pb in fish samples by slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry, 359 (1998) 205

Determination of Ge, As, Se, Cd and Pb in plant materials by slurry sampling-electrothermal vaporization-inductively coupled plasma-mass spectrometry, 372 (1998) 365

## Ultrasonic solvent extraction

Ultrasonication extraction and solid phase extraction clean-up for determination of US EPA 16 priority pollutant polycyclic aromatic hydrocarbons in soils by reversed-phase liquid chromatography with ultraviolet absorption detection, 364 (1998) 1

# Ultra-thin-film-composite membranes

Poly(o-phenylenediamine) ultra-thin polymer-film composite membranes for enzyme electrodes, 357 (1997) 55

## Ultra-trace analysis

Solvent extraction of arsenic from acid medium using zinc hexamethylenedithiocarbamate as an extractant, 360 (1998) 43

## Ultratrace metal analysis

Wet sample digestion for quantification of vanadium(V) in serum by electrothermal atomic absorption spectrometry, 386 (1999) 145

#### Ultratraces

Direct determination of ultratraces of thallium in water by flowinjection-differential-pulse anodic stripping voltammetry, 318 (1996) 159

## Ultraviolet

Spectrophotometry with liquid-core optical fibre in aqueous solution phase in the ultraviolet region, 375 (1998) 261

A low power ultra violet spectrophotometer for measurement of nitrate in seawater: introduction, calibration and initial sea trials, 377 (1998) 167

## **Umbilical** cord

Correlation of the antimony concentration of umbilical cord and infant hair measured by hydride generation—atomic fluorescence spectrometry, 354 (1997) 1

#### Uncertainty

Determination of colorimetric uncertainties in the spectrophotometric measurement of colour, 380 (1999) 277

Validation and quality control schemes based on the expression of results with uncertainty, 393 (1999) 167

# Uncertainty budget

Estimation of uncertainties in ICP-MS analysis: a practical methodology, 394 (1999) 281

## **Uncertainty evaluation**

The uncertainty of carbon dioxide determination in gaseous mixtures, 318 (1996) 327

## Uncertainty of analytical results

Estimating uncertainties of analytical results using information from the validation process, 391 (1999) 173

#### Uncertainty propagation

Controlling uncertainty in calibration, 348 (1997) 61

## **Underpotential deposition**

Determination of sub- $\mu$ g l $^{-1}$  concentrations of copper by anodic stripping voltammetry at the gold electrode, 387 (1999) 85

#### Underwater measurement

Automated pH-ISFET measurements under hydrostatic pressure for marine monitoring application, 356 (1997) 205

# **Underway measurements**

A new automated underway system for making high precision pCO<sub>2</sub> measurements onboard research ships, 377 (1998) 185

## Unenclosed tungsten coil atomizer

Analytical evaluation of a tungsten coil atomizer for cadmium, lead, chromium, manganese, nickel and cobalt determination by electrothermal atomic absorption spectrometry, 306 (1995) 183

## Unfolding

Denaturant-gradient gel electrophoresis: technical aspects and practical applications, 372 (1998) 99

# Uniform design

A novel strategy for systematic optimization of micellar electrokinetic chromatography separations, 342 (1997) 133

Uniform design applied to nonlinear multivariate calibration by ANN, 370 (1998) 65

# Uniformity

General type of a uniform and reversible representation of chemical structures, 348 (1997) 409

Investigation of the uniformity and ageing of integrating spheres, 380 (1999) 391

## Uniformity content test

Lauryl sulphate as counter ion for construction of ion-selective membrane electrodes for moclobemide and disopyramide, 350 (1997) 105

#### Unilamellar

Production and characterization of sulforhodamine B containing large unilamellar vesicles labeled with atrazine, 399 (1999) 185

#### Unimodality

Assessment of new constraints applied to the alternating least squares method, 346 (1997) 307

#### Univariate regression

Performance of the orthogonal least median squares regression, 348 (1997) 11

#### University

Towards a closer integration of Ph.D. training to industrial and societal needs, 393 (1999) 147

## Unmodified silica gel

Ion chromatographic behavior of alkali and alkaline earth metal cations on silica gel columns with cation exchange characteristics, 359 (1998) 255

Simultaneous determination of common mono- and divalent cations in natural water samples by conductimetric detection ion chromatography with an unmodified silica gel column and oxalic acid/18-crown-6 as eluent, 381 (1999) 265

# Unsaturated fatty acids

Kinetics of the electrochemical bromination of some unsaturated fatty acids by the rotating ring-disc electrode technique, 376 (1998) 357

# α,β-Unsaturated ketones

Quantitative structure-electrochemistry relationships of  $\alpha,\beta$ -unsaturated ketones, 305 (1995) 295

## Unsaturation

Multi-method characterization of lake aquatic humic matter isolated with two different sorbing solids, 363 (1998) 235

Multimethod characterization of lake aquatic humic matter isolated with sorbing solid and tangential membrane filtration, 364 (1998) 203

## **Updated Soxhlet**

Soxhlet extraction of solid materials: an outdated technique with a promising innovative future, 369 (1998) 1

# Uraemic patients

Arsenic speciation in serum of uraemic patients based on liquid chromatography with hydride generation atomic absorption spectrometry and on-line UV photo-oxidation digestion, 319 (1996) 177

## Uranium

Study of the reduction mechanism and the adsorption properties of uranium(VI)-cupferron complexes using various electrochemical techniques, 304 (1995) 177

- Rapid determination of uranium on solid matrices by synergistic in situ chelation supercritical fluid extraction and UV absorption spectroscopy, 304 (1995) 203
- Direct determination of uranium traces by adsorptive stripping voltammetry, 305 (1995) 154
- Determination of uranium in tin tailings using 4-(2-pyridylazo) resorcinol by flow-injection analysis, 314 (1995) 51
- Spectrophotometric determination of uranium in natural water with the new chromogenic reagent p-carboxychlorophosphonazo, 314 (1995) 95
- Determination of uranium by flow injection inductively coupled plasma mass spectrometry, 319 (1996) 135
- Direct and fast uranium determination in zirconium by timeresolved laser-induced fluorescence spectrometry, 321 (1996) 121
- Polarographic behaviour and determination of uranium(VI) in alcoholic solutions from organic extraction phases, 321 (1996) 201
- Adsorptive pulse polarographic determination of uranium(VI) oxinate in chloroform and its use for the analysis of uranium mineral ores, 328 (1996) 33
- Determination of uranium, thorium and lanthanum in mixed solutions using simultaneous spectrophotometry, 329 (1996) 173
- Search for chemical separation of element 106 homologues in HF and HF-HCl media, 332 (1996) 257
- Flow injection method for determination of uranium in urine and serum by inductively coupled plasma mass spectrometry, 334 (1996) 295
- Synthesis and metal sorption studies of p-tert-butylcalix[8]arene chemically bound to polymeric support, 335 (1996) 283
- Precise determination of rare earth elements, thorium and uranium in chondritic meteorites by inductively coupled plasma mass spectrometry – a comparative study with radiochemical neutron activation analysis, 338 (1997) 237
- Sequential separation of light rare-earth elements, thorium and uranium by miniaturized extraction chromatography: Application to isotopic analyses of silicate rocks, 339 (1997) 79
- A chelating resin containing 4-(2-thiazolylazo)resorcinol as the functional group Synthesis and sorption behaviour for trace metal ions, 339 (1997) 303
- Interactions of uranium and thorium with arsenazo III in an aqueous medium, 341 (1997) 263
- Simultaneous measurements of trace chromium and uranium using mixed ligand adsorptive stripping analysis, 354 (1997) 275
- Separation of thorium, uranium and rare-earth elements with 2-[(2-arsenophenyl)-azo]-1.8-dihydroxy-7-[(2,4,6-tribromophenyl)azo]-naphthalene-3,6-disulfonic acid by capillary electrophoresis. 358 (1998) 157
- Separation and preconcentration of uranium from geological materials with chelating resin containing 4-(2-thiazolylazo)resorcinol functional groups, 382 (1999) 199
- Homogeneous liquid-liquid extraction of uranium(VI) from acetate aqueous solution, 387 (1999) 71
- Simultaneous adsorptive stripping voltammetric determination of molybdenum(VI), uranium(VI), vanadium(V), and antimony(III), 394 (1999) 81
- New organosilicon polymer for the extraction and luminescence analysis of uranyl in environmental samples, 396 (1999) 263

#### Uranium traces

Possibilities for the automated determination of trace concentrations of uranium in water samples by adsorptive stripping voltammetry, 349 (1997) 93

## Uranium waste solution

A chelating resin containing 4-(2-thiazolylazo)resorcinol as the functional group. Chromatographic application to the preconcentration and separation of some trace metal ions including uranium, 351 (1997) 57

## Uranium-plutonium mixed oxide fuel

Determination of nitrogen in uranium-plutonium mixed oxide fuel by gas chromatography after fusion in an inert gas atmosphere, 345 (1997) 131

#### Uranyl

Complexation reactions of uranyl with arsenazo III, 355 (1997) 95

Molecularly imprinted ion exchange resin for purification, preconcentration and determination of { UO}<sub>2</sub><sup>2+</sup>by spectrophotometry and plasma spectrometry, 397 (1999) 173

#### Uranyl species

Square-wave cathodic stripping voltammetry of hydrolyzed uranyl species, 305 (1995) 159

#### Urate sensor

Amperometric biosensor for uric acid based on uricase-immobilized silk fibroin membrane, 369 (1998) 123

#### Urea

Clinical analysis of urea in human blood by coupling a surface acoustic wave sensor with urease extracted from pumpkin seeds, 307 (1995) 61

Conductometric urea sensor. Use of additional membranes for the improvement of its analytical characteristics, 321 (1996) 35

Polypyrrole-based amperometric flow injection biosensor for urea, 323 (1996) 107

Selective flow injection procedures for the determination of nitrogen containing analytes by gasdialytic-fluorimetric detection of enzymatically generated ammonia, 325 (1996) 93

Automated analytical biosystem for urea monitoring, 327 (1996) 243

Pulsed-amperometric detection of urea in blood samples on a conducting polypyrrole-urease biosensor, 341 (1997) 155

Use of photopolymerizable membranes based on polyacrylamide hydrogels for enzymatic microsensor construction, 351 (1997) 169

Potentiometric enzyme electrode in a flow injection system for the determination of urea in human serum samples, 369 (1998) 129

Denaturant-gradient gel electrophoresis: technical aspects and practical applications, 372 (1998) 99

## Urea hydrolysis

Stimuli-sensitive hydrogel material for biosensor-chemical trigger, 347 (1997) 27

#### Urea microsensor

Polyurethane-acrylate photocurable polymeric membrane for ionsensitive field-effect transistor based urea biosensors, 389 (1999) 179

#### Urease

Enzyme biosensors for urea determination based on an ionophore free pH membrane electrode, 315 (1995) 289

Conductometric urea sensor. Use of additional membranes for the improvement of its analytical characteristics, 321 (1996) 35

Polypyrrole-based amperometric flow injection biosensor for urea, 323 (1996) 107

Oscillation condition for a series piezoelectric sensor. Application to the determination of urease activity in plant seeds, 340 (1997) 55

Pulsed-amperometric detection of urea in blood samples on a conducting polypyrrole-urease biosensor, 341 (1997) 155

Studies on a potentiometric urea biosensor based on an ammonia electrode and urease, immobilized on a γ-aluminum oxide matrix, 341 (1997) 161

Stimuli-sensitive hydrogel material for biosensor-chemical trigger, 347 (1997) 27

Comparison of flow injection analytical biosystems based on opentube and packed-bed enzyme reactors, 370 (1998) 47

Thermogravimetry/mass spectrometry of urease-immobilized solgel silica and the application of such a urease-modified electrode to the potentiometric determination of urea, 384 (1999) 219

#### Urea-urease catalytic reaction

Potentiometric determination of salicylhydroxamic acid (urinary struvite stone inhibitor) based on the inhibition of urease activity, 351 (1997) 91

# Uric acid

An amperometric-enzymatic method for assays of inorganic phosphate and adenosine deaminase in serum based on the measurement of uric acid with a dialysis membrane-covered carbon electrode, 303 (1995) 301

Direct and simultaneous determination of uric acid and glucose in serum with electrochemical filter/biosensor flow-injection analysis system, 315 (1995) 137

Determination of ascorbic acid in a mixture of ascorbic acid and uric acid at a chemically modified electrode, 343 (1997) 49

Surface and kinetic enhancement of selectivity and sensitivity in analysis with fast scan voltammetry at scan rates above 1000 V/s, 349 (1997) 67

Synergetic effects in the flow injection analysis determination of catechol in the presence of excess ascorbic acid by series dualband amperometric detection, 385 (1999) 281

#### Uricase

Detection of uric acid with a new type of conducting polymer-based enzymatic sensor by bipotentiostatic technique, 385 (1999) 187

## Urinary creatinine

Routine assay of creatinine in newborn baby urine by spectrophotometric flow-injection analysis, 308 (1995) 446

## Urinary excretion

Immunochemical test to monitor human exposure to polycyclic aromatic hydrocarbons: urine as sample source, 399 (1999) 115

# Urinary proteins

High resolution two-dimensional electrophoresis of human urinary proteins, 372 (1998) 147

#### Urine

- Development of a bio-thermochip and its application for the detection of glucose in urine, 303 (1995) 295
- A rapid procedure for the determination of caffeine, theophylline and theobromine in urine by micellar liquid chromatography and direct sample injection, 304 (1995) 195
- Electrochemical determination of the loop diuretics piretanide and furosemide in pharmaceutical formulations and urine, 305 (1995) 332
- Determination of recombinant human erythropoietin by square wave voltammetry, 305 (1995) 340
- Flow-injection spectrophotometric determination of carbimazole and methimazole, 308 (1995) 457
- Determination of molybdenum in human urine by electrothermal atomization atomic absorption spectrometry, 310 (1995) 189
- Multicommutation in flow analysis. Part 3. Spectrophotometric kinetic determination of creatinine in urine exploiting a novel zone sampling approach, 310 (1995) 447
- A simple and fast method to determine and quantify urinary creatinine, 312 (1995) 79
- On-line coupling of isolation/in situ concentration integrated with derivative synchronous spectrofluorimetry for the simultaneous determination of epinephrine and norepinephrine in urine, 317 (1995) 335
- Direct determination of quinidine in urine, 317 (1995) 359
- Synchronous scanning second derivative spectrofluorimetry for the simultaneous determination of diflunisal and salicylic acid added to serum and urine as ternary complexes with terbium and EDTA, 320 (1996) 107
- Direct determination of triamterene in urine by matrix isopotential synchronous fluorescence spectrometry, 326 (1996) 117
- An improved spectrophotometric method for the determination of free, bound and total N-acetylneuraminic acid in biological fluids, 327 (1996) 277
- Rapid determination of lithium in human serum and urine, at physiological concentrations, by inductively coupled argon plasma atomic emission spectrometry, 327 (1996) 301
- Direct determination of diastereomeric <sup>13</sup>C-labeled ketoprofen glucuronides in human urine by nuclear magnetic resonance spectroscopy, 334 (1996) 67
- Flow injection method for determination of uranium in urine and serum by inductively coupled plasma mass spectrometry, 334 (1996) 295
- Electrochemical studies of ethamivan at glassy-carbon and platinum electrodes and its determination in urine by differential pulse voltammetry, 336 (1996) 85
- Stability studies of arsenate, monomethylarsonate, dimethylarsinate, arsenobetaine and arsenocholine in deionized water, urine and clean-up dry residue from urine samples and determination

- by liquid chromatography with microwave-assisted oxidationhydride generation atomic absorption spectrometric detection, 340 (1997) 209
- Determination of cephalosporins in urine and bile by capillary zone electrophoresis, 349 (1997) 207
- Solid-phase spectrophotometric determination of trace amounts of hydrazine at sub-ng ml<sup>-1</sup> level, 353 (1997) 115
- Indirect determination of ascorbic acid by solid-phase spectrophotometry, 360 (1998) 143
- An automated screening system for benzodiazepines in human urine, 366 (1998) 93
- Indirect determination of phytic acid in urine, 367 (1998) 63
- A time-based flow injection-cold vapor-atomic absorption spectrometry system with on-line microwave sample pre-treatment for the determination of inorganic and total mercury in urine, 369 (1998) 57
- A new derivatization procedure for the determination of cephalexin with 1,2-naphthoquinone 4-sulphonate in pharmaceutical and urine samples using solid-phase extraction cartridges and UV-visible detection, 370 (1998) 115
- High resolution two-dimensional electrophoresis of human urinary proteins, 372 (1998) 147
- First-derivative non-linear variable-angle synchronous fluorescence spectroscopy for the simultaneous determination of salicylamide, salsalate and naproxen in serum and urine, 373 (1998) 119
- Determination of five selenium compounds in urine by liquid chromatography with focused microwave assisted digestion and hydride generation—atomic absorption spectrometric detection, 374 (1998) 241
- Use of immunoassays for biomonitoring of herbicide metabolites in urine, 376 (1998) 119
- Kinetic determination of ansamicins in pharmaceutical formulations and human urine. Manual and semiautomatic (stopped-flow) procedures, 376 (1998) 365
- Off-line dansylation of amines using C<sub>18</sub> solid-phase packings: study of the fluorescence and chemiluminescence detection by post-column derivatization with oxalic acid bis(2, 4, 6-trichloro phenyl ester)/H<sub>2</sub>O<sub>2</sub> in liquid chromatography. Determination of amphetamines in urine samples, 378 (1999) 83
- Matrix effect modelling in multivariate determination of priority pollutant chlorophenols in urine samples, 381 (1999) 93
- Cathodic stripping voltammetric determination of ceftazidime with reactive accumulation at a poly-t-lysine modified hanging mercury drop electrode, 384 (1999) 159
- Rapid determination of lead and cadmium in biological fluids by electrothermal atomic absorption spectrometry using Zeeman correction, 390 (1999) 207
- Electrochemical response of new carbon electrodes bulk modified with cobalt phthalocyanine to some thiols in the presence of heptane or human urine, 394 (1999) 91

## Urine analysis

- Differential pulse polarographic determination of ceftazidime in urine samples with and without prior extraction, 351 (1997) 105
- Analytical problems in the determination of platinum-group metals in urine by quadrupole and magnetic sector field inductively coupled plasma mass spectrometry, 363 (1998) 1

#### Urine oxalate

Amperometric enzyme electrode for the determination of urine oxalate, 343 (1997) 59

## Urine samples

Determination of selenium compounds in urine samples by liquid chromatography-inductively coupled plasma mass spectrometry with an ultrasonic nebulizer, 307 (1995) 109

Determination of calcium in water, urine and pharmaceutical samples by sequential injection analysis, 323 (1996) 75

Micellar liquid chromatographic determination of diuretics by diazotization and coupling with the Bratton-Marshall reagent, 353 (1997) 215

Determination of corproporphyrin in urine by using stopped-flow fluoroimmunoassay, 361 (1998) 27

Chromatographic determination of diuretics in urine samples using hybrid micellar mobile phases with fluorimetric detection, 375 (1998) 143

## US EPA PAHS

Ultrasonication extraction and solid phase extraction clean-up for determination of US EPA 16 priority pollutant polycyclic aromatic hydrocarbons in soils by reversed-phase liquid chromatography with ultraviolet absorption detection, 364 (1998) 1

#### UV

The effect of freshwater UV-irradiation prior to resin preconcentration of trace metals, 386 (1999) 155

#### **UV** detection

Ultraviolet detector response of glycine and alanine homopeptides: Some specific features in capillary electrophoresis, 372 (1998) 257

#### UV laser

Ultraviolet laser-induced fluorescence detection strategies in capillary electrophoresis: determination of naphthalene sulphonates in river water, 360 (1998) 109

## UV spectrophotometry

Determination of theophylline in blood serum by UV spectrophotometry and partial least-squares (PLS-1) calibration, 384 (1999) 95

## UV spectroscopy

Measurement of dissolved total nitrogen in wastewater by UV photooxidation with peroxodisulphate, 389 (1999) 267

#### UV/VIS

Chemometrics: the issues of measurement and modelling, 400 (1999) 399

#### UV/visible

Challenges in providing standard reference materials for chemical and pharmaceutical process analysis, 380 (1999) 115

## **UV-C** damage

Immobilization of DNA on silver surface of bulk acoustic wave sensor and its application to the study of UV-C damage, 374 (1998) 31

#### **UV-exposure**

Mammalian cells as biomonitors of UV-exposure, 387 (1999) 281

## **UV-spectrometry**

Spectrophotometric determination of hydrogen peroxide in rainwater, 370 (1998) 279

#### **UV-VIS**

Application of curve resolution based methods to kinetic data, 396 (1999) 231

## **UV-VIS** spectrophotometry

Introduction of hydrogen peroxide as an oxidant in flow injection analysis: speciation of Cr(III) and Cr(VI), 361 (1998) 125

#### UV-visible

Novel preconcentration technique for trace metal ions by aggregate film formation. Spectrophotometric determination of copper(II), 364 (1998) 13

Radial basis functions applied to the classification of UV-visible spectra, 388 (1999) 273

#### **UV-visible detection**

A new derivatization procedure for the determination of cephalexin with 1,2-naphthoquinone 4-sulphonate in pharmaceutical and urine samples using solid-phase extraction cartridges and UV-visible detection, 370 (1998) 115

# UV-visible spectrometry

Determination of silicon in airborne particulate matter by UVvisible spectrophotometry, 342 (1997) 239

Time-resolved fluorescence studies of the interaction of the Eu<sup>3+</sup> complexes of tetracycline analogues with DNA, 345 (1997) 213

#### **UV-Visible spectrophotometry**

On-line interface between microdialysis and capillary zone electrophoresis, 307 (1995) 217

Parallel Kalman filters for peak purity analysis: extensions to nonideal detector response, 307 (1995) 459

Determination of nitrate in municipal waste water by UV spectroscopy, 312 (1995) 107

Resolution of overlapping UV-visible absorption bands: quantitative analysis of tautomeric equilibria, 314 (1995) 225

Determination of 3-chloro-N-chloro-N-(3,4-dimethyl-5-isoxazolyl)-4-amine-1,2-naphthoquinone in presence of its degradation products using second derivative spectrophotometry, 318 (1996) 221

On-line multicomponent determination of organic compounds in water following gel permeation chromatographic separation, 319 (1996) 165

Chromogenic reagents for iron(II): studies in the 1,2,4-triazine series, 322 (1996) 203

UV-visible spectrophotometric, adsorptive stripping voltammetric and capillary electrophoretic study of 2-(5'-bromo-2'-pyridylazo)-5-diethylaminophenol and its chelates with selected metal ions: application to the determination of Co(III) in vitamin B<sub>12</sub>, 323 (1996) 97

Step by step filter - an approach for noise reduction in the derivative UV-visible spectra, 324 (1996) 77

- Application of the Davidon-Fletcher-Powell algorithm to the resolution of multicomponent mixtures using UV-vis spectrophotometry, 327 (1996) 145
- Determination of multicomponent dissolution profiles of pharmaceutical products by in situ fiber-optic UV measurements, 345 (1997) 155
- Evaluation and elimination of the blank bias error using the H-point standard additions method (HPSAM) in the simultaneous spectrophotometric determination of two analytes, 348 (1997) 39
- Second order global analysis: the evaluation of series of spectrophotometric titrations for improved determination of equilibrium constants, 353 (1997) 381
- Flow spectrophotometric determination of ammonium ion, 398 (1999) 311

# $\mathbf{V}$

#### V(V) determination

The determination of vanadium(V) in the presence of vanadium(IV) using 4-(2-pyridylazo)resorcinol in a flow-injection manifold, 329 (1996) 275

#### Vacuum

Microwave vacuum drying of marine sediment: determination of moisture content, metals and total carbon, 342 (1997) 247

#### Vacuum fusion-mass spectrometry

Vacuum fusion-mass spectrometric determination of H, N and O in U<sub>3</sub>Si fuel using the standard addition technique, 316 (1995) 337

#### Validation

- Development of a highly sensitive enzyme-linked immunosorbent assay for atrazine Performance evaluation by flow injection immunossay, 347 (1997) 149
- Inter-laboratory studies for the validation of solid-phase microextraction for the quantitative analysis of volatile organic compounds in aqueous samples, 356 (1997) 113
- A strategy to validate immunoassay test kits for TNT and PAHs as a field screening method for contaminated sites in Germany, 376 (1998) 3
- Characterisation, validation and comparison of three methods for the extraction of phosphate from sediments, 376 (1998) 183
- Multi- and univariate interpretation of the interlaboratory validation of PrEN 12673; GC determination of chlorophenols in water, 388 (1999) 119
- The SFSTP guide on the validation of chromatographic methods for drug bioanalysis: from the Washington Conference to the laboratory, 391 (1999) 135
- Inter-laboratory, time, and fitness-for-purpose aspects of effective validation, 391 (1999) 159
- Validation and quality control schemes based on the expression of results with uncertainty, 393 (1999) 167
- The validation of methods based on polymerase chain reaction for the detection of genetically modified organisms in food, 393 (1999) 177

## Validation methods

Performance of the orthogonal least median squares regression, 348 (1997) 11

#### Validation procedure

Development and application of a standardized validation procedure for food chemistry laboratories, 391 (1999) 239

## Validation process

Estimating uncertainties of analytical results using information from the validation process, 391 (1999) 173

#### Validation reporting

The role of laboratory information management systems (LIMS) in analytical method validation, 391 (1999) 149

## Validation strategy

Validation of an automated method for the liquid chromatographic determination of atenolol in plasma: application of a new validation protocol, 391 (1999) 227

#### Valinomycin

- A potassium-ion selective electrode with valinomycin based poly(vinyl chloride) membrane and a poly(vinyl ferrocene) solid contact, 302 (1995) 241
- Methacrylate-acrylate based polymers of low plasticiser content for potassium ion-selective membranes, 324 (1996) 47

#### Vanadate

- A ternary complex system for the reversed-phase chromatography of chromate, 317 (1995) 189
- Interference from chromate, germanate, tungstate and vanadate when determining phosphate in aqueous solution by the phosphoantimonylmolybdenum blue method, 358 (1998) 245

## Vanadium

- Determination of vanadium(IV) and vanadium(V) by formation of a transient mixed valence complex in a flow-injection manifold, 307 (1995) 1
- Extraction with 8-quinolinol and mixed anionic additives using ultrasonic irradiation for the catalytic determination of vanadium in freshwaters, 310 (1995) 501
- On-line determination of vanadium by adsorptive stripping voltammetry, 312 (1995) 15
- Application of ion-exchanger phase visible light absorption to flow analysis. Determination of vanadium in natural water and rock, 317 (1995) 207
- Separation of vanadium(V) and -(IV) by sorption on an iminodiacetic chelating resin, 323 (1996) 27
- Pretreatment by yeast for determination of nickel and vanadium in bitumen-in-water emulsion by inductively coupled plasma atomic emission spectrometry, 327 (1996) 61
- Catalytic stripping voltammetry of vanadium in the presence of dihydroxynaphthalene and bromate, 333 (1996) 131
- Simultaneous determination of vanadium(IV) and vanadium(V) as EDTA complexes by capillary zone electrophoresis, 339 (1997)
- Wet sample digestion for quantification of vanadium(V) in serum by electrothermal atomic absorption spectrometry, 386 (1999) 145

Selective and sensitive spectrophotometric determination of total vanadium with hydrogen peroxide and 4-(2-pyridylazo)-resorcinol, 389 (1999) 275

Simultaneous adsorptive stripping voltammetric determination of molybdenum(VI), uranium(VI), vanadium(V), and antimony(III), 394 (1999) 81

#### Vanadium determination

Determination of arsenic and vanadium in airborne related reference materials by inductively coupled plasma-mass spectrometry, 392 (1999) 299

## Vanadium speciation

Determination of vanadium species in water samples by liquid chromatography-inductively coupled plasma mass spectrometry, 357 (1997) 211

#### Vanadium(V)

High-performance liquid chromatography with electrochemical detection for the determination of vanadium(V) in river water and mussel samples, 327 (1996) 203

Selective separation and concentration of vanadium(V) by a chemical pumping hollow-fiber supported liquid membrane, 349 (1997) 171

Determination of V(V) by a kinetic stopped-flow FIA method with spectrophotometric detection, 366 (1998) 287

#### Vapor monitor

Evaluation of a chemical vapor dosimeter using polymer-coated SERS substrates, 399 (1999) 265

#### Vapour generation

Vapour generation Fourier transform infrared spectrometry. A new analytical technique, 308 (1995) 28

Interference-free atomic spectrometric method for the determination of trace amounts of germanium by utilizing the vaporization of germanium tetrachloride, 330 (1996) 237

Vapour generation-Fourier transform infrared spectrometric determination of benzene, toluene and methyl tert.-butyl ether in gasolines, 333 (1996) 157

Direct vapor generation Fourier transform infrared spectrometric determination of ethanol in blood, 336 (1996) 123

Determination of Hg and Bi by electrothermal vaporization inductively coupled plasma mass spectrometry using vapor generation with in situ preconcentration in a platinum-coated graphite furnace, 353 (1997) 173

## Variable boundary

Design and evaluation of an improved simplex method, 371 (1998) 9

## Variable reduction

Discrimination of the variety and region of origin of extra virgin olive oils using <sup>13</sup>C NMR and multivariate calibration with variable reduction, 348 (1997) 357

## Variable selection

Improved variable selection procedure for multivariate linear regression, 354 (1997) 225

Variable selection in wavelet regression models, 368 (1998) 29

## Variable-angle synchronous fluorescence spectrometry

Derivative linear variable-angle scanning fluorescence spectrometry for the determination of closely overlapping drug mixtures, 319 (1996) 361

# Variance components model

Inter-laboratory, time, and fitness-for-purpose aspects of effective validation, 391 (1999) 159

#### Variance inflation factor

Relevant physicochemical factors in chromatographic separation of Alternaria alternata mycotoxins, 370 (1998) 79

#### Variogram

Comparison of some methods to estimate the limiting value of the variogram,  $v_h(j)$ , for the sampling interval j=0 in sampling error estimation, 346 (1997) 277

#### VASS

Application of variable-angle synchronous phosphorimetry in a microemulsion medium for the simultaneous determination of three polyaromatic hydrocarbons, 329 (1996) 165

## Vegetable foodstuffs

Element determination by total-reflection X-ray fluorescence spectrometry at the initial step of element speciation in biological matrices, 309 (1995) 327

#### Vegetable juices

Determination of the oxygen-18 and deuterium content of fruit and vegetable juice water An European inter-laboratory comparison study, 302 (1995) 29

# Vegetable oils

Classification of vegetable oils by linear discriminant analysis of Electronic Nose data, 384 (1999) 83

# Vegetable respiration rate

On-line analysis of sample atmospheres using membrane inlet mass spectrometry as a method of monitoring vegetable respiration rate, 394 (1999) 43

# Vegetable samples

Evaluation of a highly sensitive amperometric biosensor with low cholinesterase charge immobilized on a chemically modified carbon paste electrode for trace determination of carbamates in fruit, vegetable and water samples, 399 (1999) 37

## Vegetables

Adsorptive complex catalytic polarographic determination of germanium in soils and vegetables, 309 (1995) 103

Determination of Procymidone in vegetables by a commercial competitive inhibition enzyme immunoassay, 311 (1995) 371

Immobilized enzyme modulator microassay (IEMMA) for the detection of pesticide in fresh produce, 329 (1996) 297

Turbidimetric flow-injection determination of total nitrogen and potassium in vegetables, 356 (1997) 259

Direct application of an enzyme-linked immunosorbent assay method for carbaryl determination in fruits and vegetables. Comparison with a liquid chromatography—postcolumn reaction fluorescence detection method, 387 (1999) 245

#### VEGF/VPF

Prediction of an antisense-effective target site on VEGFmRNA by using RNase H and a library of random oligonucleotides, 365 (1998) 55

#### Vehicular emission

Exploring the versatility of capillary electrophoresis for the analysis of ionic species in vehicular emission, 388 (1999) 171

## Vermicompost

Mechanism of metribuzin herbicide sorption by humic acid samples from peat and vermicompost, 368 (1998) 155

#### Vermiculite

Determination of traces of copper by anodic stripping voltammetry after its preconcentration via an ion-exchange route at carbon paste electrodes modified with vermiculite, 305 (1995) 176

#### Vesicle

Second derivative spectrophotometric determination of partition coefficients of chlorpromazine and promazine between lecithin bilayer vesicles and water, 304 (1995) 101

Comparing organized media types using fluorescence probe characterization methods, 307 (1995) 419

Optical control of enzymatic conversion of sucrose to glucose by bacteriorhodopsin incorporated into self-assembled phosphatidylcholine vesicles, 311 (1995) 211

#### Vesicles and micelles

Electrophoretic analysis of proteins in bile, 383 (1999) 185

## Veterinary products

Partial least squares method in the analysis by square wave voltammetry. Simultaneous determination of sulphamethoxypyridazine and trimethoprim, 349 (1997) 303

#### Video analysis

Direct observation of sample trapping process onto internal-surface reversed-phase pre-column, 365 (1998) 115

## Video-microscope

Simultaneous analysis of membrane potential and calcium mobilization in a pancreatic B-cell line MIN6 by use of a double-probe imaging microscope-system, 365 (1998) 3

## Video-microscopy

Visualized single cell dynamics and analysis of molecular tricks, 400 (1999) 33

#### Vinocco

Alternative indirect method for sulfate determination in natural samples, 329 (1996) 197

## Vinyl polymers

Novel separation of inorganic anions using a charged complex ionexchanger, 334 (1996) 1

#### Virgin olive oils classification

Precise classification of virgin olive oils with various linoleic acid contents based on triacylglycerol analysis, 364 (1998) 83

## Virus specific monoclonal antibodies

A piezoelectric immunosensor for hepatitis viruses, 309 (1995) 19

#### Viscoelastic effects correction

Correction for the effects of viscoelastic changes in a piezoelectric quartz crystal by the multiple linear regression method, 343 (1997) 85

#### Viscosity

Effect of solvent properties on the dispersion coefficient in an online microwave flow-injection system, 314 (1995) 213

Prediction of Simple Physical Properties of Mixed Solvent Systems by Artificial Neural Networks, 371 (1998) 117

Effect of the medium composition on the current of steady state voltammograms of neutral and charged species in dimethylformamide/toluene mixtures, 385 (1999) 365

#### Vitamin B,

Vitamin B<sub>1</sub> ion-selective microelectrode based on a liquid-liquid interface at the tip of a micropipette, 312 (1995) 329

#### Vitamin B

Surface-enhanced Raman detection of nicotinamide in vitamin tablets, 368 (1998) 21

# Vitamin B<sub>12</sub>

Speciation of vitamin B<sub>12</sub> analogues by liquid chromatography with flame atomic absorption spectrometric detection, 318 (1996) 319

UV-visible spectrophotometric, adsorptive stripping voltammetric and capillary electrophoretic study of 2-(5'-bromo-2'-pyridy-lazo)-5-diethylaminophenol and its chelates with selected metal ions: application to the determination of Co(III) in vitamin B<sub>12</sub>, 323 (1996) 97

Chemiluminescence flow sensor for the determination of vitamin  $B_{12}$ , 357 (1997) 127

## Vitamin complex

Determination of molybdenum in various materials by normal-phase liquid chromatography using N-benzoyl-N-phenylhydroxylamine, 309 (1995) 157

# Vitamin E

Automated analysis for vitamin E in butter by coupling sample treatment – continuous membrane extraction – liquid chromatography with electrochemical detection, 386 (1999) 99

## Vitamin K<sub>3</sub>

Detection of menadione sodium bisulfite (vitamin K<sub>3</sub>) by reversedphase high performance liquid chromatography with series dualelectrode amperometric detector, 338 (1997) 57

#### Vitamins

Determination of fat-soluble vitamins by capillary liquid chromatography in bovine blood plasma, 315 (1995) 177

Automatic determination of liposoluble vitamins in butter and margarine using Triton X-100 aqueous micellar solution by liquid chromatography with electrochemical detection, 315 (1995) 201

Electrochemical response of a polypyrrole-dodecylsulphate electrode with multicharged cations and vitamins B<sub>1</sub> and B<sub>6</sub>. Application as a microsensor in flow-injection analysis, 336 (1996) 47

#### Volatile metal(loid) compounds

Sampling and probing volatile metal(loid) species in natural waters by in-situ purge and cryogenic trapping followed by gas chromatography and inductively coupled plasma mass spectrometry (P-CT-GC-ICP/MS), 377 (1998) 241

#### Volatile organic compounds

Enhanced selectivity in ion mobility spectrometry analysis of complex mixtures by alternate reagent gas chemistry, 306 (1995) 21

Enhancing the performance of membrane introduction mass spectrometry by organic carrier and liquid chromatographic separation, 337 (1997) 165

Monitoring the absorption of organic vapors to a solid phase extraction medium Applications to detection of trace volatile organic compounds by integration of solid phase absorbents with fiber optic Raman spectroscopy, 340 (1997) 227

Selective detection of nitrogen and oxygen containing volatile organic compounds: use of metal-modified polysiloxanes as sensor coatings, 346 (1997) 327

Inter-laboratory studies for the validation of solid-phase microextraction for the quantitative analysis of volatile organic compounds in aqueous samples, 356 (1997) 113

Whole-cell biosensor for determination of volatile organic compounds in the form of aerosols, 364 (1998) 153

Pattern recognition approach to the study of the interactions between metalloporphyrin Langmuir–Blodgett films and volatile organic compounds, 384 (1999) 249

Interaction between volatile organic compounds and cyclopeptides detected with reflectometric interference spectroscopy, 392 (1999) 213

Application of fuzzy clustering and piezoelectric chemical sensor array for investigation on organic compounds, 398 (1999) 219 Field air analysis with SPME device, 400 (1999) 153

## Volatile organics

Multivariate statistical analysis characterization of applicationbased ion mobility spectra, 316 (1995) 1

# Volatilization and insolubilization phenomena

Critical discussion on the need for an efficient mineralization procedure for the analysis of plant material by atomic spectrometric methods, 358 (1998) 85

## Voltammery

Interaction of pyrite pulps with Ag<sup>+</sup> and Hg<sup>2+</sup> ions. Electrochemical characterization of micrometric grains, 385 (1999) 467

## Voltammetry

Curve fitting to resolve overlapping voltammetric peaks: model and examples, 304 (1995) 1

Study of the reduction mechanism and the adsorption properties of uranium(VI)-cupferron complexes using various electrochemical techniques, 304 (1995) 177

Electrocatalytic and flow-injection determination of the antioxidant tert.-butylhydroxyanisole at a nickel phthalocyanine polymer modified electrode, 305 (1995) 49 Voltammetric determination of trace mercury in chloride media at glassy carbon electrodes modified with polycationic ionomers, 305 (1995) 74

Electrooxidation and determination of the 1,4-benzodiazepine loprazolam at the carbon-paste electrode, 305 (1995) 91

Chronoamperometry and pulve voltammetry of uncharged species at microelectrodes in the presence of a very low amount of supporting electrolyte, 305 (1995) 106

Properties of interdigital electrode arrays with different geometries, 305 (1995) 126

Development of graphite-poly(tetrafluoroethylene) composite electrodes Voltammetric determination of the herbicides thiram and disulfiram, 305 (1995) 192

Voltammetric determination of Prometrine in soil and water, 305 (1995) 207

Indirect voltammetric determination of carbaryl and carbofuran using partial least squares calibration, 305 (1995) 219

Kinetic measurements of a surface confined redox reaction, 305 (1995) 248

Determination of the antioxidant Irganox 1076 by anodic voltammetry and flow injection with pulsed amperometric detection at a glassy carbon electrode, 305 (1995) 324

Electrochemical determination of the loop diuretics piretanide and furosemide in pharmaceutical formulations and urine, 305 (1995) 332

Determination of recombinant human erythropoietin by square wave voltammetry, 305 (1995) 340

Polarographic and voltammetric behaviour of ofloxacin and its analytical application, 307 (1995) 49

Models for mediated reactions at film modified electrodes: controlled electrode potential, 307 (1995) 227

Surface-confined monomers on electrode surfaces Part 3. Electrochemical reactions and scanning probe microscopy investigations of ω-(N-pyrrolyl) alkanethiol self-assembled monolayers on gold, 307 (1995) 269

Self-assembled monolayers and enzyme electrodes: progress, problems and prospects, 307 (1995) 277

Pulsed electrochemical detection of thiocompounds following microchromatographic separations, 307 (1995) 301

Voltammetric determination of lead with a chemically modified carbon paste electrode with diphenylthiocarbazone, 309 (1995) 117

Batch square-wave voltammetric and flow-injection amperometric determination of trace amounts of bromofenoxim, 310 (1995) 153

Vitamin B<sub>1</sub> ion-selective microelectrode based on a liquid-liquid interface at the tip of a micropipette, 312 (1995) 329

Electrochemical investigations of reactive dyes; polarographic determination of anthraquinone-based chlorotriazine dyes, 315 (1995) 41

Covalent modification of carbon electrodes for voltammetric differentiation of dopamine and ascorbic acid, 317 (1995) 303

Voltammetric determination of boron in plasma using Beryllon(III) as a ligand, 318 (1996) 303

Parasitic resistance as a source of error in voltammetric measurements, 319 (1996) 31

Polarographic and voltammetric determination of selected triazinebased azo dyes with different reactive groups, 320 (1996) 31

- Determination of cobalt by catalytic-adsorptive differential pulse voltammetry, 320 (1996) 229
- A simple current transducer for ultramicroelectrode measurements at a wide range of time scales, 321 (1996) 209
- Voltammetry with programmed baseline compensation, 324 (1996) 135
- Properties of poly-β-aminoanthraquinone modified carbon fiber electrode as a basis for hemoglobin biosensors, 327 (1996) 125
- Dynamic properties of humic matter by dynamic light scattering and voltammetry, 329 (1996) 15
- Simultaneous adsorptive voltammetric analysis of mixed colorants by multivariate calibration approach, 329 (1996) 65
- Voltammetric behaviour of some nitropesticides at the mercury drop electrode, 329 (1996) 73
- Determination of pH using a polyaniline-coated piezoelectric crystal, 329 (1996) 105
- Determination of copper, lead and cadmium in whole blood by stripping voltammetry with the use of graphite electrodes, 330 (1996) 175
- Assessment of linearity between steady-state limiting current and analytical concentration of weak acids in the reaction of hydrogen evolution, 331 (1996) 117
- Application of thallium(I) as an internal standard redox process in voltammetric measurements, 331 (1996) 125
- Amperometric detection with membrane-based sampling for percent-level determinations of ethanol, 332 (1996) 111
- Simultaneous cathodic stripping voltammetric determination of mercury, cobalt, nickel and palladium by mixed binder carbon paste electrode containing dimethylglyoxime, 333 (1996) 119
- Voltammetric and amperometric study of electrochemical activity of boron-doped polycrystalline diamond thin film electrodes, 333 (1996) 125
- Calibration of an array of voltammetric microelectrodes, 334 (1996) 93
- Multicomponent analysis of sodium cuprate, NaCuO<sub>2-x</sub>, having a high Cu(III) content, 334 (1996) 103
- Voltammetric determination of sequence-specific DNA by electroactive intercalator on graphite electrode, 335 (1996) 239
- Voltammetric characterisation of an insoluble tetrathiafulvalene derivative by means of modified carbon paste electrode, 336 (1996) 77
- Electrochemical studies of ethamivan at glassy-carbon and platinum electrodes and its determination in urine by differential pulse voltammetry, 336 (1996) 85
- Voltammetric investigation of the complexation equilibria in the presence of a low level of supporting electrolyte Part 1: Steady-state current-potential curves for inert complexes, 337 (1997) 5
- Electrochemical behavior of FAD at a gold electrode studied by electrochemical quartz crystal microbalance, 338 (1997) 97
- Characterization of organic matter in fractionated seawater samples using o-nitrophenol as an electrochemical probe, 338 (1997) 179
- Adsorption voltammetric determination of  $\mu g \ 1^{-1}$  levels formaldehyde via in situ derivatization with Girard's reagent T, 339 (1997) 173

- Synergetic adsorption of copper(II) mixed ligand complexes onto the SEP-PAK C<sub>18</sub> column, 339 (1997) 181
- Spline wavelet analysis for voltammetric signals, 340 (1997) 115
- Application of multivariate curve resolution to the voltammetric data Factor analysis ambiguities in the study of weak consecutive complexation of metal ion with ligand, 341 (1997) 105
- Design and characterization of chemically modified electrodes with iron(III) porphyrinic-based polymers: Study of their reactivity toward nitrites and nitric oxide in aqueous solution, 341 (1997) 177
- Supercoiled DNA-modified mercury electrode: A highly sensitive tool for the detection of DNA damage, 342 (1997) 1
- Simultaneous determination of caffeine and acetaminophen in drug formulations by square-wave voltammetry using a chemically modified electrode, 342 (1997) 175
- Determination of ascorbic acid in a mixture of ascorbic acid and uric acid at a chemically modified electrode, 343 (1997) 49
- Electrochemical studies of porphyrin interacting with DNA and determination of DNA, 344 (1997) 97
- The aluminium(III)-4-nitrocatechol system: potentiometry, voltammetry and application to the determination of reactive Al(III), 345 (1997) 5
- Wavelet analyses of electroanalytical chemistry responses and an adaptive wavelet filter, 346 (1997) 319
- Adsorption-voltammetric determination of guanine, guanosine, adenine and adenosine with capillary zone electrophoresis separation, 347 (1997) 269
- Surface and kinetic enhancement of selectivity and sensitivity in analysis with fast scan voltammetry at scan rates above 1000 V/s, 349 (1997) 67
- Disposable thick film modified graphite electrodes for stripping voltammetry, 349 (1997) 85
- Nickel speciation of fly ash by phase extraction, 349 (1997) 121
- Partial least squares method in the analysis by square wave voltammetry. Simultaneous determination of sulphamethoxypyridazine and trimethoprim, 349 (1997) 303
- Voltammetric determination of trace platinum in gasoline after Wickbold combustion, 350 (1997) 135
- Electroanalytical study of salazosulfapyridine and biseptol components at the mercury electrode, 353 (1997) 61
- Voltammetric detection of MoO<sup>2-</sup><sub>4</sub> at a modified carbon paste electrode containing chitin, 353 (1997) 301
- Voltammetric behaviour of dopamine at nickel phthalocyanine polymer modified electrodes and analytical applications, 354 (1997) 343
- Novel photochemical voltammetric method for the determination of traces of iron in tea, 354 (1997) 359
- A PVC-graphite composite electrode for electroanalytical use. Preparation and some applications, 355 (1997) 23
- Electrocatalysis by a C<sub>60</sub>-γ-cyclodextrin (1:2) and nafion chemically modified electrode of hemoglobin, 356 (1997) 225
- Polarographic and voltammetric determination of Ostacetate Blue P3R, 356 (1997) 231
- Voltammetric behaviour of dopamine at nickel phthalocyanine polymer modified electrodes and analytical applications, 356 (1997) 245
- An electronic tongue based on voltammetry, 357 (1997) 21

Electrochemical behavior and determination of gold at chemically modified carbon paste electrode by the ethylenediamine fixed humic acid preparation, 361 (1998) 133

Multivariate curve resolution analysis of voltammetric data obtained at different time windows: study of the system Cd<sup>2+</sup>-nitrilotriacetic acid, 371 (1998) 23

Voltammetric investigation of the complexation equilibria in the presence of a low level of supporting electrolyte. Experiments with an inert complex, 377 (1998) 29

Voltammetric characterization of a dissolved iron sulphide species by laboratory and field studies, 377 (1998) 193

On-line voltammetric monitoring of dissolved Cu and Ni in the Gulf of Cadiz, south-west Spain, 377 (1998) 205

A field-deployable instrument for the measurement and speciation of arsenic in potable water, 380 (1999) 27

Preconcentration with membrane cell and adsorptive polarographic determination of cyanides in air, 382 (1999) 283

Voltammetric response of a copper(II) complex incorporated in silica-modified carbon-paste electrode, 385 (1999) 103

Anodic stripping voltammetry of lead and cadmium using a mercury film electrode and thiocyanate, 385 (1999) 273

Voltammetric study of the interaction between Se(IV) and dissolved organic matter in environmental aqueous matrices, 385 (1999) 337

Zinc-binding properties of the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: analysis by differential pulse polarography and multivariate curve resolution, 385 (1999) 353

Electrochemical oxidation of mitoxantrone at a glassy carbon electrode, 385 (1999) 401

Voltammetric determination of Cr(VI) in a flow system in the presence of diethylenetriaminepentaacetic acid (DTPA) following its deposition in the metallic state, 387 (1999) 97

Complexation of cadmium by the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: study by differential pulse polarography and circular dichroism spectroscopy with multivariate curve resolution analysis, 390 (1999) 15

The use of voltammetry for sorption studies of heavy metals on mineral surfaces in presence of the siderophore desferrioxamine B, 392 (1999) 159

Voltammetric studies of the interaction of methylene blue with DNA by means of β-cyclodextrin, 394 (1999) 337

Electrochemical deposition and properties of polypyrrole films doped with calcion ligands, 395 (1999) 65

Voltammetric reduction of mercury(II), silver(I), lead(II) and copper(II) ions adsorbed onto a new form of mesoporous silica, 396 (1999) 203

200 years of practical electroanalytical chemistry: past, present and future directions illustrated by reference to the on-line, on-stream and off-line determination of trace metals in zinc plant electrolyte by voltammetric and potentiometric techniques, 400 (1999) 333

Stripping voltammetry for the determination of trace metal speciation and in-situ measurements of trace metal distributions in marine waters, 400 (1999) 381

#### Vulcanization accelerators

Determination of accelerators and antioxidants in vulcanized rubber by fourier transform infrared spectrophotometry, 353 (1997) 351

#### VUV laser

Development of a vacuum ultraviolet laser source and its application to the evaluation of phosphor materials for a plasma display panel, 389 (1999) 69



# Wall and canvas painting analysis

Fourier transform infrared spectroscopy and the analytical study of works of art for purposes of diagnosis and conservation, 330 (1996) 207

# Wall-jet electrode

On the suppression of zinc-copper interactions in square wave anodic stripping voltammetry in flowing solution by addition of gallium ions, 339 (1997) 167

#### Wall-jet electrode system

Characterization and application of an on-line flow injection analysis/wall-jet electrode system for glucose monitoring during fermentation, 317 (1995) 223

#### Wall-tube

A microelectrochemical detector for use at low linear velocities in capillary column systems, 344 (1997) 77

## Wall-tube electrode

Capillary batch injection analysis: a novel approach for analyzing nanoliter samples, 362 (1998) 213

#### Waste analysis

Cadmium(II)-selective sensors based on dibenzo-24-crown-8 in PVC matrix, 389 (1999) 205

## Waste sites

A strategy to validate immunoassay test kits for TNT and PAHs as a field screening method for contaminated sites in Germany, 376 (1998) 3

## Waste water

Determination of EDTA and DTPA as their Fe(III) complexes in pulp and paper mill process and waste waters by liquid chromatography, 303 (1995) 187

Evaluation of flow injection methods for ammonium determination in wastewater samples, 311 (1995) 165

Determination of nitrate in municipal waste water by UV spectroscopy, 312 (1995) 107

Rapid estimation of biochemical oxygen demand using a microbial multi-staged bioreactor, 313 (1995) 221

Evaluation of spectrophotometric methods for determination of orthophosphates by sequential injection analysis, 350 (1997) 21

Total nitrogen determination by flow injection using on-line microwave-assisted digestion, 351 (1997) 273

Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165

- Potentiometric flow injection determination of cadmium in waste waters including in-line ion-exchange separation/concentration, 366 (1998) 155
- Determination of ammonia in wastewaters containing high concentrations of surfactants by flow injection potentiometry with online sample clean-up, 367 (1998) 193
- Effect of competitor design on immunoassay specificity: Development and evaluation of an enzyme-linked immunosorbent assay for 2,4-dinitrophenol, 387 (1999) 267
- Improved stability and altered selectivity of tyrosinase based graphite electrodes for detection of phenolic compounds, 387 (1999) 309
- Multivariate data analysis of key pollutants in sewage samples: a case study, 393 (1999) 181

#### Water

- Cathodic stripping potentiometric determination of selenium in biological and environmental materials on a combined electrode with a rotating sample platform, 338 (1997) 199
- Stability studies of arsenate, monomethylarsonate, dimethylarsinate, arsenobetaine and arsenocholine in deionized water, urine and clean-up dry residue from urine samples and determination by liquid chromatography with microwave-assisted oxidationhydride generation atomic absorption spectrometric detection, 340 (1997) 209
- Pyrocatechol Violet immobilized Amberlite XAD-2: synthesis and metal-ion uptake properties suitable for analytical applications, 340 (1997) 285
- Measuring SI-traceable nitrate concentrations in water by a primary method of measurement, isotope dilution mass spectrometry, 346 (1997) 3
- Prototype of a newly developed immunochemical detection system for the determination of pesticide residues in water, 347 (1997) 187
- A novel gas-diffusion/flow-injection system coupled with a bulk acoustic wave impedance sensor for total inorganic carbonate and its application to determination of total inorganic and total organic carbon in waters, 349 (1997) 143
- Determination of sulfide by square-wave polarography, 351 (1997) 115
- Direct determination of silver at parts-per-billion level in waters by derivative atomic absorption spectrometry using the atom trapping technique, 353 (1997) 79
- Simultaneous determination of cobalt(II) and Ni(II) in water and soil samples with sequential injection analysis, 366 (1998) 177
- Catalytic simultaneous spectrophotometric determination of nitrite and nitrate with a flow injection system, 370 (1998) 59
- Coupling of flow injection wetting-film extraction without segmentation and phase separation to flame atomic absorption spectrometry for the determination of trace copper in water samples, 370 (1998) 151
- Microwave-assisted extraction of atrazine from soil followed by rapid detection using commercial ELISA kit, 371 (1998) 97
- Rapid determination of chemical oxygen demand by a semiautomated method based on microwave sample digestion, chromium(VI) organic solvent extraction and flame atomic absorption spectrometry, 372 (1998) 399

- Characterisation of the ion mobility spectrometric behaviour of a dinitrobutane under varying conditions of temperature and concentration, 375 (1998) 49
- Constant current cathodic stripping potentiometric determination of arsenic on a mercury film electrode in the presence of copper ions, 381 (1999) 207
- Monitoring of pesticides in river water based on samples previously stored in polymeric cartridges followed by on-line solid-phase extraction-liquid chromatography-diode array detection and confirmation by atmospheric pressure chemical ionization mass spectrometry, 386 (1999) 237
- Estimation of uncertainties in ICP-MS analysis: a practical methodology, 394 (1999) 281

#### Water analysis

- Passive monitoring of trace metals in water by in situ sample preconcentration via chelation on a textile based solid sorbent, 341 (1997) 229
- Modifications to the azomethine-H method for determining boron in water, 346 (1997) 373
- Simultaneous determination of iron(II) and iron(III) in water by capillary electrophoresis, 351 (1997) 41
- Cyclodextrin-enhanced fluorescence and photochemically-induced fluorescence determination of five aromatic pesticides in water, 360 (1998) 129
- Flow-injection analysis wit potentiometric detection for the speciation of fluoride and calcium, 366 (1998) 23
- Flow-injection potentiometric determination of free cadmium ions with a cadmium ion-selective electrode, 370 (1998) 267
- Photochemical-fluorimetric method for the determination of the insecticide imidacloprid in water samples, 371 (1998) 247
- Application of microwave digestion to trace organoelement determination in water samples, 374 (1998) 209
- Determination of PAHs in river water samples by ELISA, 376
- Occurrence of triazine herbicides and metolachlor in the Niagara River and other major tributaries draining into Lake Ontario, 376
- A field-deployable instrument for the measurement and speciation of arsenic in potable water, 380 (1999) 27
- Voltammetric determination of Cr(VI) in a flow system in the presence of diethylenetriaminepentaacetic acid (DTPA) following its deposition in the metallic state, 387 (1999) 97
- Development of an enzyme-linked immunosorbent assay for benalaxyl and its application to the analysis of water and wine, 392
- Determination of small quantities of phenol in water, 396 (1999)

# Water and soil analysis

Resolution of phenol, o-cresol, m-cresol and p-cresol mixtures by excitation fluorescence using partial least-squares (PLS) multivariate calibration, 335 (1996) 23

## Water determination

Solvatochromogenic flavone dyes for the detection of water in acetone, 383 (1999) 299

#### Water elution

Evaluation of sulfobetaine-type zwitterionic stationary phases for ion chromatographic separation using water as a mobile phase, 349 (1997) 231

Characteristic conversion of ion pairs among anions and cations for determination of anions in electrostatic ion chromatography using water as a mobile phase, 379 (1999) 23

#### Water gel explosive

Identification of laurylamine acetate in water gel explosives by electrospray/mass spectrometry, 349 (1997) 333

#### Water miscible solvents

Solvent-resistant carbon electrodes screen printed onto plastic for use in biosensors, 347 (1997) 9

#### Water pollutants

A biosensor as warning device for the detection of cyanide, chlorophenols, atrazine and carbamate pesticides, 311 (1995) 255

Preconcentration and separation of acaricides by polyether based polyurethane foam, 320 (1996) 277

## Water pollution

Automated immunosensing system for 3,5,6-trichloro-2-pyridinol. Application to surface water samples, 392 (1999) 113

## Water quality

DNA electrochemical biosensors for environmental monitoring. A review, 347 (1997) 1

#### Water quality control

Water quality control in the production of drinking water from river water. The application of immunological techniques for the detection of chlorophenoxy acid herbicides (2,4-D), 311 (1995) 407

## Water quality monitoring

The determination of aqueous ammonia by ion mobility spectrometry, 311 (1995) 77

#### Water samples

Determination of Hg and Bi by electrothermal vaporization inductively coupled plasma mass spectrometry using vapor generation with in situ preconcentration in a platinum-coated graphite furnace, 353 (1997) 173

Kinetic determination of bromadiolone based on lanthanide-sensitized luminescence, 355 (1997) 145

Microextraction procedures combined with large volume injection in capillary gas chromatography for the determination of pesticide residues in environmental aqueous samples, 356 (1997) 125

Determination of vanadium species in water samples by liquid chromatography-inductively coupled plasma mass spectrometry, 357 (1997) 211

Speciation of iron in river and tap waters by catalytic spectrophotometry using oxidation of o-phenylenediamine with hydrogen peroxide, 388 (1999) 35

#### Water solubility enhancement

Water solubility enhancement of pyrene in the presence of humic substances, 337 (1997) 351

## Water soluble porphyrins

Resonance light scattering study of aggregation of two water soluble porphyrins due to their interaction with bovine serum albumin, 343 (1997) 281

## Water sorption

Water-instigated changes in elastic modulus of polypyrrole studied by thin rod acoustic wave sensor, 353 (1997) 255

## Water+alcohol mixed solvents

Dissociation constants of methyl orange in aqueous alcohol solvents, 364 (1998) 275

#### Waterblooms

Quantitative determination of cyanobacteria in mixed phytoplankton assemblages by an in vivo fluorimetric method, 302 (1995) 81

#### Water-content sensor

Molecular design, characterization, and application of multi-information dyes for multi-dimensional optical chemical sensing. Molecular design concepts of the dyes and their fundamental spectral characteristics, 373 (1998) 271

## Water-gel explosives

Systematic approach to the identification of water-gel explosives, 375 (1998) 255

#### Water-N,N-dimethylformamide mixtures

Ionization constants of water insoluble arylpropionic acids in aqueous N,N-dimethylformamide mixtures from potentiometric pH-titrations, 356 (1997) 253

#### Waters

A versatile macro- to micro-size stationary mercury drop electrode, 302 (1995) 1

Determination of the oxygen-18 and deuterium content of fruit and vegetable juice water An European inter-laboratory comparison study, 302 (1995) 29

Possibilities of simple steam distillation in combination with capillary isotachophoresis for the determination of chlorophenols in river and industrial waste waters, 302 (1995) 39

Determination of triphenyltin in sea water samples by liquid chromatography with fluorimetric detection, 302 (1995) 185

Close overlapping discrimination of polycyclic aromatic hydrocarbons by synchronous scanning at variable-angle solid-phase spectrofluorimetry, 302 (1995) 193

Simultaneous spectrophotometric determination of nitrite and nitrate in a flow-injection system, 302 (1995) 283

Determination of EDTA and DTPA as their Fe(III) complexes in pulp and paper mill process and waste waters by liquid chromatography, 303 (1995) 187

Determination of trace aluminum in natural waters by flow-injection analysis with fluorescent detection of the lumogallion complex, 303 (1995) 211

Determination of trace metals in natural waters by flame atomic absorption spectrometry following on-line ion-exchange preconcentration, 303 (1995) 341

- Determination of didealkylatrazine in water by graphitized carbon black extraction followed by gas chromatography-high resolution mass spectrometry, 304 (1995) 67
- Determination of phenols in sea water by liquid chromatography with electrochemical detection after enrichment by using solidphase extraction cartridges and disks, 304 (1995) 75
- Determination of molybdenum in sea water by solid-phase spectrophotometry, 304 (1995) 243
- New enzyme sensor for sulfite analysis in sea and river water samples, 305 (1995) 32
- Theory and application of chemically modified carbon paste electrode to copper speciation determination, 305 (1995) 42
- Voltammetric determination of trace mercury in chloride media at glassy carbon electrodes modified with polycationic ionomers, 305 (1995) 74
- Determination of copper, cadmium, iron, manganese, nickel and zinc in Antarctic sea water. Comparison of electrochemical and spectroscopic procedures, 305 (1995) 200
- Voltammetric determination of Prometrine in soil and water, 305 (1995) 207
- Application of an indirect tensammetric method for the determination of non-ionic surfactants in surface water, 305 (1995) 256
- The simultaneous speciation of aluminium and iron in a flowinjection system, 306 (1995) 5
- A factor analysis approach to the study of the eutrophication of a shallow, temperate lake (San Daniele, North Eastern Italy), 306 (1995) 99
- Analytical evaluation of a tungsten coil atomizer for cadmium, lead, chromium, manganese, nickel and cobalt determination by electrothermal atomic absorption spectrometry, 306 (1995) 183
- Analysis of arsenic(V) by cathodic stripping voltammetry, 306 (1995) 217
- Application of binaphthyl-based amphiphiles Determination of benzo[a]pyrene by fluorescence energy transfer, 306 (1995) 323
- Spectrophotometric determination of nitrite with 4-iodo-N,N-dimethylaniline, 306 (1995) 357
- Preconcentration and flow-injection multivariate determination of priority pollutant chlorophenols, 308 (1995) 238
- Spectrophotometric determination of calcium in paper machine white water by sequential injection analysis, 308 (1995) 286
- Simultaneous flow injection determination of nitrate and nitrite in water by gas-phase chemiluminescence, 308 (1995) 308
- Determination of sub-nanomolar concentrations of lead in sea water by adsorptive stripping voltammetry with xylenol orange, 309 (1995) 95
- Shipboard flow injection determination of sea water pH with spectrophotometric detection, 309 (1995) 259
- Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for the determination of zinc by flame atomic absorption spectrometry, 309 (1995) 395
- Pseudopolarographic determination of stability constants of labile zinc complexes in fresh water, 310 (1995) 131
- Remote stripping electrode for in situ monitoring of labile copper in the marine environment, 310 (1995) 223
- Extraction with 8-quinolinol and mixed anionic additives using ultrasonic irradiation for the catalytic determination of vanadium in freshwaters, 310 (1995) 501

- Studies of preservation of water samples for the determination of non-ionic surfactants, 311 (1995) 31
- Comparative study of on-line solid phase extraction followed by UV and electrochemical detection in liquid chromatography for the determination of priority phenols in river water samples, 311 (1995) 63
- The determination of aqueous ammonia by ion mobility spectrometry, 311 (1995) 77
- Evaluation of flow injection methods for ammonium determination in wastewater samples, 311 (1995) 165
- Validation of an enzymatic biosensor with various liquid chromatographic techniques for determining organophosphorus pesticides and carbaryl in freeze-dried waters, 311 (1995) 265
- Validation of two immunoassay methods for environmental monitoring of carbaryl and 1-naphthol in ground water samples, 311 (1995) 319
- Validation of commercially available ELISA microtiter plates for triazines in water samples, 311 (1995) 331
- Enzyme immunoassays for s-triazine herbicides and their application in environmental and food analysis, 311 (1995) 349
- Determination of atrazine and alachlor in natural waters by a rapidmagnetic particle-based ELISA Influence of common crossreactants: deethylatrazine, deisopropylatrazine, simazine and metolachlor, 311 (1995) 357
- Water quality control in the production of drinking water from river water. The application of immunological techniques for the detection of chlorophenoxy acid herbicides (2,4-D), 311 (1995) 407
- Entrapment of chloroplasts and thylakoids in polyvinylalcohol-SbQ.

  Optimization of membrane preparation and storage conditions,
  311 (1995) 437
- Detection of mixtures of organic pollutants in water by polymer film recepiors in fibre-optical sensors based on reflectometric interference spectrometry, 312 (1995) 1
- Determination of nitrobenzenes in river water, sediment and fish samples by gas chromatography-mass spectrometry, 312 (1995)
- Determination of nitrate in municipal waste water by UV spectroscopy, 312 (1995) 107
- Spectrophotometric determination of bromate ions using phenothiazines, 313 (1995) 121
- Rapid estimation of biochemical oxygen demand using a microbial multi-staged bioreactor, 313 (1995) 221
- Spectrophotometric determination of uranium in natural water with the new chromogenic reagent p-carboxychlorophosphonazo, 314 (1995) 95
- A simple model for predicting the pH values of acidic natural waters, 314 (1995) 111
- Liquid chromatographic determination of triphenyltin and tributyltin using fluorimetric detection, 314 (1995) 175
- Determination of phosphorus in turbid waters using alkaline potassium peroxodisulphate digestion, 315 (1995) 123
- Determination of volatile sulfur compounds in water samples, beer and coffee with purge and trap gas chromatography–microwaveinduced plasma atomic emission spectrometry, 316 (1995) 93
- Flow-injection chemiluminescence determination of ultra low concentrations of nitrite in water, 316 (1995) 261

- Use of immobilized 3-phytase and flow injection for the determination of phosphorus species in natural waters, 316 (1995) 277
- Analysis of ammonia and methylamines in natural waters by flow injection gas diffusion coupled to ion chromatography, 316 (1995) 291
- Flow-injection column preconcentration directly coupled with electrothermal atomization atomic absorption spectrometry for the determination of aluminium. Comparison of column packing materials, 316 (1995) 313
- How chemometrics can helpfully assist in evaluating environmental data. Lagoon water, 317 (1995) 53
- Application of ion-exchanger phase visible light absorption to flow analysis. Determination of vanadium in natural water and rock, 317 (1995) 207
- Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for nickel, cobalt and manganese determination by atomic absorption spectrometry, 317 (1995) 215
- Amperometric method for the determination of nitrate in water, 317 (1995) 287
- On-line sample handling strategies for the trace-level determination of pesticides and their degradation products in environmental waters, 318 (1995) 1
- Remote electrochemical monitoring of trace silver, 318 (1996) 151
  Direct determination of ultratraces of thallium in water by flow-injection-differential-pulse anodic stripping voltammetry, 318 (1996) 159
- Determination of dissolved silica in waters by a flow-based analysis system composed of a laser diode and a thin long flow-through cell. 318 (1996) 195
- Model compounds for the determination of organic and total phosphorus dissolved in natural waters, 318 (1996) 385
- Determination of <sup>60</sup>Co in environmental water samples by a hydrous magnesium oxide filter, 318 (1996) 391
- Determination of tin traces in water samples by adsorptive stripping voltammetry, 319 (1996) 19
- On-line multicomponent determination of organic compounds in water following gel permeation chromatographic separation, 319 (1996) 165
- Rapid determination of copper, lead and cadmium in unpurged seawater by adsorptive stripping voltammetry, 320 (1996) 19
- Efficient quenching of the fluorescence of binaphthyl-based amphiphiles by mercury(II) complexes, 320 (1996) 115
- Determination of triazines in surface waters by membrane separation coupled on-line to a flow-injection system and partial least squares regression, 321 (1996) 147
- Determination of selenium speciation in river waters by adsorption on iron(III)-Chelex-100 resin and differential pulse cathodic stripping voltammetry, 321 (1996) 185
- Direct determination of bromide ions in sea water by ion chromatography using water as the mobile phase, 322 (1996) 43
- Towards a microelectrode sensor for the determination of oxygen in waters, 322 (1996) 83
- Determination of total phenols in waters and wastewaters using flow injection with electrochemical detection; an alternative to the standard colorimetric procedure, 323 (1996) 39
- Determination of calcium in water, urine and pharmaceutical samples by sequential injection analysis, 323 (1996) 75

- Determination of sub-nanomolar concentration of arsenic(III) in natural waters by square wave cathodic stripping voltammetry, 325 (1996) 25
- Potentiometric detection of pesticides in water samples, 325 (1996)
- Gas chromatography-mass spectrometry determination of triclosans in water, sediment and fish samples via methylation with diazomethane, 325 (1996) 175
- Determination of total phosphorus in waters and wastewaters by online UV/thermal induced digestion and flow injection analysis, 326 (1996) 29
- Intercomparison of alkyllead compound determination in mussels and water by two analytical techniques: gas chromatography atomic absorption spectrometry and differential pulse anodic stripping voltammetry, 326 (1996) 57
- Preconcentration and speciation of chromium by the determination of total chromium and chromium(III) in natural waters by flame atomic absorption spectrometry with a chelating ion-exchange flow injection system, 327 (1996) 37
- Simultaneous determination of aluminium and beryllium at the subnanogram per millilitre level by solid-phase derivative spectrophotometry, 327 (1996) 73
- Speciation of metals associated with natural water components by on-line membrane fractionation combined with inductively coupled plasma atomic emission and mass spectrometries, 327 (1996) 167
- High-performance liquid chromatography with electrochemical detection for the determination of vanadium(V) in river water and mussel samples, 327 (1996) 203
- Performance of two immunoassays for the determination of atrazine in sea water samples as compared with on-line solid phase extraction-liquid chromatography-diode array detection, 330 (1996) 41
- Microwave-assisted solvent elution technique for the extraction of organic pollutants in water, 330 (1996) 217
- Measurement of electrokinetic and size characteristics of estuarine colloids by dynamic light scattering spectroscopy, 331 (1996) 1
- Determination of non-ionic surfactants adsorbed on particles of surface water by an indirect tensammetric method combined with the BiAS separation scheme, 331 (1996) 131
- Aluminum speciation by liquid chromatography concerning hydroand geo-chemical aspects, 332 (1996) 233
- Cysteine enhancement of the cryogenic trap hydride AAS determination of dissolved arsenic species, 333 (1996) 89
- Determination of chlorine and dissolved oxygen in waters and of ascorbic acid in pharmaceuticals by iodimetric potentiometric titration using a plasticized poly(vinyl chloride) membrane electrode, 333 (1996) 107
- Highly sensitive spectrophotometric determination of nitrite ion using 5,10,15,20-tetrakis(4-aminophenyl)porphine for application to natural waters, 333 (1996) 175
- Simultaneous analysis of the antifouling agents: tributyltin, triphenyltin and IRGAROL 1051 in marina water samples, 335 (1996) 267
- Simultaneous determination of several trace metals in seawater using cathodic stripping voltammetry with mixed ligands, 337 (1997) 29

New interface for coupling flow-injection and capillary electrophoresis, 337 (1997) 117

Molecular size distribution and spectroscopic properties of aquatic humic substances, 337 (1997) 133

Sampling of polar pesticides from water matrices, 338 (1997) 3

Determination of simazine in water samples by waveguide surface plasmon resonance, 338 (1997) 109

Trace determination of triazine herbicides by means of coupledcolumn liquid chromatography and large volume injection, 338 (1997) 223

Detection of more than 50 substituted phenols as their t-butyldimethylsilyl derivatives using gas chromatography-mass spectrometry, 341 (1997) 21

Determination of benzene derivatives in water by solid-phase microextraction, 343 (1997) 101

Competitive equilibration techniques for determining transition metal speciation in natural waters: Evaluation using model data, 343 (1997) 161

Flow injection-assisted optical sensor for determination of iron(II) and iron(III) in natural water, 343 (1997) 191

Possibilities for the automated determination of trace concentrations of uranium in water samples by adsorptive stripping voltammetry, 349 (1997) 93

Automatic determination of iron in geothermal fluids containing high dissolved sulfur-compounds using flow injection electrothermal atomic absorption spectrometry with an on-line microwave radiation precipitation-dissolution system, 366 (1998) 295

Performance characteristics for the measurement of Cs and Sr by diffusive gradients in thin films (DGT), 368 (1998) 243

On-line separation and preconcentration of cadmium, lead and nickel in a fullerene (C<sub>60</sub>) minicolumn coupled to flow injection tungsten coil atomic absorption spectrometry, 368 (1998) 255

# Water-soluble polymeric chromogenic reagent

A new polymeric chromogenic reagent for the determination of copper(II), 334 (1996) 213

Water-soluble porphyrin

Highly sensitive spectrophotometric determination of nitrite ion using 5,10,15,20-tetrakis(4-aminophenyl)porphine for application to natural waters, 333 (1996) 175

#### Water-soluble vitamins

Micellar electrokinetic capillary chromatography analysis of watersoluble vitamins, 396 (1999) 55

#### Waveguide

Active optical thin-film waveguide sensor for ion sensing, 343 (1997) 199

# Waveguide sensor

New detection method for atrazine pesticides with the optical waveguide Mach-Zehnder immunosensor, 341 (1997) 171

## Waveguide surface plasmon resonance

Determination of simazine in water samples by waveguide surface plasmon resonance, 338 (1997) 109

## Wavelength dispersive X-ray spectrometry

Determination of soluble chromium(VI) in chromium plating mist by X-ray spectrometry, 334 (1996) 331

## Wavelength selection

Further investigation on a comparative study of simulated annealing and genetic algorithm for wavelength selection, 311 (1995) 1

Genetic algorithms as a method for variable selection in multiple linear regression and partial least squares regression, with applications to pyrolysis mass spectrometry, 348 (1997) 71

A novel peak-hopping stepwise feature selection method with application to Raman spectroscopy, 388 (1999) 251

## Wavelength standard

Challenges in providing standard reference materials for chemical and pharmaceutical process analysis, 380 (1999) 115

#### Wavelet

Wavelet analyses of electroanalytical chemistry responses and an adaptive wavelet filter, 346 (1997) 319

#### Wavelet power spectrum

The application of the wavelet power spectrum to detect and estimate 1/f noise in the presence of analytical signals, 388 (1999) 303

#### Wavelet regression

Variable selection in wavelet regression models, 368 (1998) 29

#### Wax

Amperometric peroxide sensor based on horseradish peroxidase and toluidine blue O-acrylamide polymer in carbon paste, 373 (1998) 241

# 3-Way Calibration

Excitation-emission matrix fluorescence based determination of carbamate pesticides and polycyclic aromatic hydrocarbons, 397 (1999) 61

## Weak acids

Assessment of linearity between steady-state limiting current and analytical concentration of weak acids in the reaction of hydrogen evolution, 331 (1996) 117

#### Wear metals

Determination of metallo-organic species in lubricating oil by electrothermal vaporization inductively coupled plasma mass spectrometry, 320 (1996) 11

## Weight interpretation

Kohonen neural network as a pattern recognition method based on the weight interpretation, 334 (1996) 57

# Weighted least-squares

Reduction of the relative standard deviation in the least-squares fitting of linearized equations by using sensitivity weights, 316 (1995) 173

## Weighted least-squares fitting

Description of the partitioning behaviour of solutes and data treatment in micellar liquid chromatography with modifiers, 324 (1996) 163

#### Weighted regression

Controlling uncertainty in calibration, 348 (1997) 61

#### Western blot

Electrophoretic methods for the isolation and characterization of enzymes, 383 (1999) 109

#### Western blotting

Improved quantification of stress proteins by western blotting, 311 (1995) 109

Application of Western-blotting technique with chemiluminescence imaging to the study of haptoglobin type and haptoglobin complexes, 362 (1998) 113

Application of electrophoresis and related methods, such as western blotting and zymography to the study of some proteins and enzymes, 383 (1999) 119

#### Western Mediterranean Sea

Shipboard determination of hydrogen peroxide in the western Mediterranean sea using flow injection with chemiluminescence detection, 371 (1998) 205

Shipboard determination of hydrogen peroxide in the western Mediterranean sea using flow injection with chemiluminescence detection, 377 (1998) 145

#### Wet chemical analysis

Micro-continuous flow system for wet chemical analysis, 354 (1997) 35

## Wet digestion

Critical discussion on the need for an efficient mineralization procedure for the analysis of plant material by atomic spectrometric methods, 358 (1998) 85

## Wheat allergen

Automated flow immunoassay for detection of food allergen using anion-exchange resin and alkaline phosphatase conjugated immunoglobulin G, 370 (1998) 207

# Wheat analysis

Characterization of wheat by four analytical parameters. A chemometric study, 331 (1996) 43

Determination of oligoelements in wheat, 343 (1997) 241

## White and black tiles

Determination of colorimetric uncertainties in the spectrophotometric measurement of colour, 380 (1999) 277

#### White wines

Kinetic-catalytic-spectrophotometric determination of low concentrations of molybdenum in white wines, 390 (1999) 255

## Whole blood analysis

Determination of lead and cadmium in whole blood of mothers and their babies, 353 (1997) 307

#### Whole column detector

Capillary isoelectric focusing with whole column detection and a membrane sample preparation system, 383 (1999) 67

#### Whole-cell

Whole-cell biosensor for determination of volatile organic compounds in the form of aerosols, 364 (1998) 153

#### Wickbold combustion

Voltammetric determination of trace platinum in gasoline after Wickbold combustion, 350 (1997) 135

# Wide range determination

Automatic multicommutation flow system for wide range spectrophotometric calcium determination, 366 (1998) 45

#### Wiener filtering

Wiener filtering of electroanalytical data by means of fast Fourier transform, 319 (1996) 3

## Window evolving factor analysis

Corrections for heteroscedasticity in window evolving factor analysis, 318 (1996) 125

## Window factor analysis (WFA)

Smoothed window factor analysis, 381 (1999) 233

#### Window Selection Diagram

Study of different criteria for the selection of a rugged optimum in high performance liquid chromatography optimisation, 348 (1997) 223

#### Windowless flow cell

Flow-injection analysis and liquid chromatography: surfaceenhanced Raman spectrometry detection by using a windowless flow cell, 318 (1996) 203

# Wine analysis

Simultaneous determination of inorganic anions and carboxylic acids in wine using isocratic separation on a permanently coated reversed-phase column and UV indirect detection, 321 (1996) 263

Development of an enzyme-linked immunosorbent assay for benalaxyl and its application to the analysis of water and wine, 392 (1999) 85

## Wines

Flow analysis with membrane separation and time based sampling for ethanol determination in beer and wine, 305 (1995) 241

Construction and use of a tubular picrate ion-selective electrode for reducing sugar determination in Port wine by flow-injection analysis, 308 (1995) 122

Indirect flow-injection determination of tannins in wines and tea by atomic absorption spectrometry, 308 (1995) 357

Flow-injection analysis with chemiluminescent detection of sulphite using Na<sub>2</sub>CO<sub>3</sub>-NaHCO<sub>3</sub>-Cu<sup>2+</sup> system, 323 (1996) 69

The utilisation of a piezoelectric quartz crystal for measuring carbon dioxide in wine, 327 (1996) 95

Determination of sulphite in wines by gas-diffusion flow injection analysis utilizing spectrophotometric pH-detection, 337 (1997) 125

Enzymatic determination of L(+) lactic and L(-) malic acids in wines by flow-injection spectrophotometry, 366 (1998) 187

Biosensors for L-malate and L-lactate based on solid binding matrix, 379 (1999) 193

Sequential determination of total and volatile acidity in wines based on a flow injection-pervaporation approach, 381 (1999) 23

A flow-batch titrator exploiting a one-dimensional optimisation algorithm for end point search, 396 (1999) 91

#### Working range

Flow injection immunotitration: extended working range for inhibition type immunodetection, 399 (1999) 275

## Workplace monitoring

Workplace monitoring of oximes using 2,4-dinitrophenylhydrazinecoated silica gel cartridges and liquid chromatography, 388 (1999) 181

#### Workshop

Quality assurance good practice for research and development and non-routine analysis, 393 (1999) 157



#### XAD-8

Characterization of organic matter in fractionated seawater samples using o-nitrophenol as an electrochemical probe, 338 (1997)

## XAD-8 resin

Spectrophotometric determination of molybdenum in steel samples utilizing selective sorbent extraction on Amberlite XAD-8 resin, 322 (1996) 111

#### XAD resin

Multimethod characterization of lake aquatic humic matter isolated with sorbing solid and tangential membrane filtration, 364 (1998) 203

# XAD resin, DEAE cellulose

Multi-method characterization of lake aquatic humic matter isolated with two different sorbing solids, 363 (1998) 235

Characterization of lake-aquatic humic matter isolated with two different sorbing solid techniques: pyrolysis electron impact mass spectrometry, 391 (1999) 331

#### XAD resins

Trace analysis of neutral organic species using thin-layer electrochemistry, 321 (1996) 195

#### Xanthene dyes

Application of gallic acid and xanthene dyes for determination of ozone in air with a chemiluminescence aerosol detector, 374 (1998) 297

#### Xanthine

Chemically amplified xanthine and hypoxanthine sensors based on substrate recycling between the enzyme-substrate complex and substrate, 302 (1995) 21

Direct evaluation of meat spoilage and the progress of aging using biosensors, 320 (1996) 269

#### Xanthine oxidase

Kinetics and performance of a mediated biosensor for hypoxanthine using deflavo xanthine oxidase, 319 (1996) 325

Silk fibroin/cellulose acetate membrane electrodes incorporating xanthine oxidase for the determination of fish freshness, 369 (1998) 245

## Xenoestrogen

Development of an enzyme linked receptor assay (ELRA) for estrogens and xenoestrogens, 386 (1999) 191

## Xenon tetrafluoride

Xenon tetrafluoride as a decomposition agent for silicone rubber for isolation and atomic emission spectrometric determination of trace metals. 340 (1997) 1

#### XPS

Formation of a copper-butyl ethoxycarbonyl thiourea complex, 346 (1997) 237

In situ monitoring of copper(II) fixation on silica gel in aqueous ammonia by means of dielectric measurements and quantitative analysis of adsorbed species, 361 (1998) 273

DNA-modified electrodes Part 3.: spectroscopic characterization of DNA-modified gold electrodes, 388 (1999) 93

Conformational aspects of model chromatographic surfaces studied by sum-frequency generation, 397 (1999) 81

#### X-ray diffraction

Characterisation of an unusual crystalline efflorescence on an Egyptian limestone relief, 337 (1997) 151

Accurate quantification of quartz and other phases by powder X-ray diffractometry, 337 (1997) 233

Surface roughness with nanometer-scale Ag particles generated by ion implantation, 350 (1997) 209

# X-ray fluorescence spectrometry

Optimized arsenic, selenium and mercury determinations in aqueous solutions by energy dispersive x-ray fluorescence after preconcentration onto zirconium-loaded activated charcoal, 302 (1995) 80

X-Ray fluorescence analysis utilizing the fundamental parameter method for the determination of the elemental composition in plant samples, 307 (1995) 117

Element determination by total-reflection X-ray fluorescence spectrometry at the initial step of element speciation in biological matrices, 309 (1995) 327

Determination of iron in nuclear grade zirconium oxide by x-ray fluorescence spectrometry using an internal intensity reference, 309 (1995) 333

Separation of microgram quantities of Cr(III) and Cr(VI) in aqueous solutions and determination by energy dispersive X-ray fluorescence spectrometry, 315 (1995) 365

Passive monitoring of trace metals in water by in situ sample preconcentration via chelation on a textile based solid sorbent, 341 (1997) 229

Constraints, iteration schemes and convergence criteria for concentration calculations in X-ray fluorescence spectrometry with the use of fundamental parameter methods, 373 (1998) 291

#### XRF

Preparation of airborne particulate standards on PTFE-membrane filter for laser ablation inductively coupled plasma mass spectrometry, 368 (1998) 11

#### **XRF** analysis

Determination of small quantities of heavy metals in water-soluble salts and natural water by X-ray fluorescence, 371 (1998) 105

#### XRFA

X-ray fluorescence determination of mobile forms of Cu, Zn and Co in soils with preconcentration on silica gel modified by didecylaminoethyl-β-tridecylammonium iodide, 383 (1999) 277

## **Xylenol Orange**

Determination of sub-nanomolar concentrations of lead in sea water by adsorptive stripping voltammetry with xylenol orange, 309 (1995) 95



# YBa2Cu3Ov

Stoichiometry of superconducting YBa<sub>2</sub>Cu<sub>3</sub>O<sub>y</sub> A comparison of methods for the determination of the Cu(I):Cu(II) ratio, 304 (1995) 223

# YBa2Cu3Ov superconductor

Determination of oxygen stoichiometry in YBCO superconductors by spectrophotometry, 312 (1995) 223

## YBCO superconducting bulk samples and films

Rapid and simple spectrophotometric determination of oxygen stoichiometry in YBCO superconducting materials, 336 (1996) 223

## **YBCO** superconductors

Improved iodometric method for simultaneous determination of non-stoichiometric oxygen and total copper content in YBCO superconductors, 312 (1995) 227

Determination of non-stoichiometric oxygen in YBCO superconductors by coulometric titration, 353 (1997) 325

## YbF,

Determination of lanthanides by ion chromatography. Separation and retention mechanism, 353 (1997) 239

#### Yeast

Membrane inlet ion mobility spectrometry for on-line measurement of ethanol in beer and in yeast fermentation, 309 (1995) 317

On-line monitoring with feedback control of bioreactors using a high ethanol tolerance yeast by membrane introduction mass spectrometry, 316 (1995) 269

Influence of the ratio copper(II) to ligand concentrations and the nature of entering and leaving ligands on the lability of copper(II) complexes, 330 (1996) 273

Adsorptive cathodic stripping voltammetric determination of gold(-III) in the presence of yeast mannan, 385 (1999) 393

#### Yeast pretreatment

Pretreatment by yeast for determination of nickel and vanadium in bitumen-in-water emulsion by inductively coupled plasma atomic emission spectrometry, 327 (1996) 61

#### Yeast RNA

Spectrophotometry of nucleic acids by their effect on the complex of cobalt(II) with 4-[(5-chloro-2-pyridyl)azo]-1,3-diaminobenzene, 345 (1997) 235

Determination of nucleic acids at nanogram levels with safranine T by a resonance light-scattering technique, 375 (1998) 89

#### Yohimbine hydrochloride

Solid surface room temperature phosphorimetry analysis of yohimbine hydrochloride in pharmaceutical formulations, 309 (1995) 345

#### Ytterbium

Quantitative structure-property relationships for colour reagents and their colour reactions with ytterbium using regression analysis and computational neural networks, 321 (1996) 97

Near-infrared electrogenerated chemiluminescence of ytterbium(III) chelates in aqueous electrolytes, 395 (1999) 205

#### Yttrium

Selective separation and determination of scandium from yttrium and lanthanides in red mud by a combined ion exchange/solvent extraction method, 315 (1995) 231

Recovery of lanthanides and yttrium from red mud by selective leaching, 319 (1996) 249

Solvent extraction of yttrium from chloride media by di(2-ethylhexyl)phosphoric acid in kerosene. Speciation studies and gel formation, 327 (1996) 267

Polarographic determination of yttrium based on reduction of its solochrome violet RS complexApplication to the analysis of the superconductor YBa<sub>2</sub>Cu<sub>3</sub>O<sub>3</sub>, 341 (1997) 91

Studies on monoxide flame emission spectrometry of rare-earth elements. Part 2. Determination of yttrium in rare-earth concentrates by the dual wavelength method, 344 (1997) 291

# Z

#### Zeatin

Determination of Zeatin in plant extracts by square wave stripping polarography and differential pulse stripping polarography, 315 (1995) 33

## Zeeman background correction

Minimization of phosphate interference in the direct determination of arsenic in urine by electrothermal atomic absorption spectrometry, 334 (1996) 177

Determination of bismuth, indium and lead in geological and seawater samples by electrothermal atomic absorption spectrometry with nickel-containing chemical modifiers, 382 (1999) 329

## Zeeman-effect background correction

Study and comparison of several chemical modifiers for selenium determination in human serum by Zeeman electrothermal atomic absorption spectrometry, 398 (1999) 279

## Zeolite modified electrodes

- Factors affecting the analytical applications of zeolite-modified electrodes Preconcentration of electroactive species, 340 (1997) 61
- Factors affecting the analytical applications of zeolite modified electrodes: indirect detection of nonelectroactive cations, 388 (1999) 79

### **Zeolites**

- Factors affecting the analytical applications of zeolite-modified electrodes Preconcentration of electroactive species, 340 (1997) 61
- Zeolite-modified electrodes in electroanalytical chemistry, 384 (1999) 1
- A reagentless amperometric biosensor based on the coimmobilization of horseradish peroxidase and methylene green in a modified zeolite matrix, 386 (1999) 31
- Factors affecting the analytical applications of zeolite modified electrodes: indirect detection of nonelectroactive cations, 388 (1999) 79

## Zephiramine

Simple method for spectrophotometric determination of cationic surfactants without liquid-liquid extraction, 384 (1999) 215

#### Zero valent iron

Confirmation and method development for dechlorinated atrazine from reductive dehalogenation of atrazine with Fe<sup>0</sup>, 373 (1998) 153

## Zero-crossing point method

Application of a new spectrophotometric method for the analysis of a ternary mixture containing metamizol, paracetamol and caffeine in tablets, 359 (1998) 93

#### Zine

- In-flow speciation of copper, zinc, lead and cadmium in fresh waters by square wave anodic stripping voltammetry Part II. Optimization of measurement step, 305 (1995) 183
- Three pressurized mineralization procedures that permit subsequent flame atomic spectrometric determination of Ca, Fe, K, Mg and Zn in bovine blood plasma-containing cookies and in standard reference materials, 306 (1995) 139
- Determination of iron and zinc in adipose tissue by on-line microwave-assisted mineralization and flow-injection graphite furnace atomic absorption spectrometry, 308 (1995) 349
- Flow injection sorbent extraction with dialkyldithiophosphates as chelating agent for the determination of zinc by flame atomic absorption spectrometry, 309 (1995) 395
- Evaluation of multicomponent flow-injection analysis data by use of a partial least squares calibration method, 310 (1995) 53
- Voltammetry of Pb(II), Cd(II) and Zn(II) ions in the presence of the sulphated polysaccharide λ-carrageenan, 310 (1995) 121

- Pseudopolarographic determination of stability constants of labile zinc complexes in fresh water, 310 (1995) 131
- Anodic stripping voltammetry of trace metals by batch injection analysis, 322 (1996) 151
- Direct stripping voltammetric method for the determination of small concentrations of one component in binary alloys, 327 (1996) 107
- Determination of zinc in biological materials by sequential metal vapor elution analysis with atomic absorption detection, 329 (1996) 191
- On the suppression of zinc-copper interactions in square wave anodic stripping voltammetry in flowing solution by addition of gallium ions, 339 (1997) 167
- Pyrocatechol Violet immobilized Amberlite XAD-2: synthesis and metal-ion uptake properties suitable for analytical applications, 340 (1997) 285
- Photometric screening-test for heavy metals under flow injection conditions using extractive determination with dithizone, 353 (1997) 165
- Determination of Cu, Zn, Cd and Pb in fish samples by slurry sampling electrothermal vaporization inductively coupled plasma mass spectrometry, 359 (1998) 205
- A study of the analytical parameters important for the sequential extraction procedure using microwave heating for Pb, Zn and Cu in calcareous soils, 369 (1998) 235
- Isoform separation of metallothioneins by capillary zone electrophoresis with Tris-tricine buffer in the presence or absence of methanol, 372 (1998) 231
- Continuous flow-through solid phase spectrophotometric determination of trace amounts of zinc, 375 (1998) 71
- Determination of zinc in environmental samples by anodic stripping voltammetry, 376 (1998) 197
- Zinc-binding properties of the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: analysis by differential pulse polarography and multivariate curve resolution, 385 (1999) 353
- Complexes of Zn(II) and Cd(II) with 4-(2-pyridylazo)resorcinol sorbed on sephadex QAE: characterization and theoretical study, 389 (1999) 281

# Zinc and cadmium complexes

- Characterisation of zinc metallothioneins by electroanalytical techniques, 385 (1999) 295
- Characterisation of zinc metallothioneins by electroanalytical techniques, 385 (1999) 307

#### Zinc determination

Flow-injection solid-phase spectrophotometry for the determination of zinc in pharmaceutical preparations, 383 (1999) 309

# Zinc hexamethylenedithiocarbamate

- Solvent extraction of arsenic from acid medium using zinc hexamethylenedithiocarbamate as an extractant, 360 (1998) 43
- Solvent extraction of Pb(II) from acid medium with zinc hexamamethylenedithiocarbamate followed by back-extraction and subsequent determination by FAAS, 386 (1999) 281

## Zinc plant electrolyte

200 years of practical electroanalytical chemistry: past, present and future directions illustrated by reference to the on-line, onstream and off-line determination of trace metals in zinc plant electrolyte by voltammetric and potentiometric techniques, 400 (1999) 333

# Zinc preconcentration

Polyurethane foam as a sorbent for continuous flow analysis: Preconcentration and spectrophotometric determination of zinc in biological materials, 366 (1998) 263

## Zinc(II) dithiocarbamate

Trace measurement of dithiocarbamate based pesticide by adsorptive stripping voltammetry, 388 (1999) 111

# Zinc(II) polymethacrylates

Metal complexation model identification and the detection and elimination of erroneous points using evolving least-squares fitting of voltammetric data, 363 (1998) 261

#### Zineb

Trace measurement of dithiocarbamate based pesticide by adsorptive stripping voltammetry, 388 (1999) 111

#### Zircalov-2

Determination of iron in nuclear grade zirconium oxide by x-ray fluorescence spectrometry using an internal intensity reference, 309 (1995) 333

#### Zirconia

A TGA investigation of hydrated monoclinic zirconia, 327 (1996) 261

Characterization of polybutadiene-coated zirconia and comparison to conventional bonded phases by use of linear solvation energy relationships, 334 (1996) 239

#### Zirconium

Post-column zirconium chelation and fluorescence detection for the liquid chromatographic determination of tetracyclines, 303 (1995) 11

Direct and fast uranium determination in zirconium by timeresolved laser-induced fluorescence spectrometry, 321 (1996) 121

Behaviour of Zr, Hf, Nb, Ta and Pa on macroporous anion exchanger in chloride–fluoride media, 374 (1998) 149

#### Zirconium oxide

Determination of iron in nuclear grade zirconium oxide by x-ray fluorescence spectrometry using an internal intensity reference, 309 (1995) 333

#### Zirconium-loaded activated charcoal

Optimized arsenic, selenium and mercury determinations in aqueous solutions by energy dispersive x-ray fluorescence after preconcentration onto zirconium-loaded activated charcoal, 302 (1995) 89

Separation of microgram quantities of Cr(III) and Cr(VI) in aqueous solutions and determination by energy dispersive X-ray fluorescence spectrometry, 315 (1995) 365

#### Zn

Assessment of a screening method for metals in seawater based on the non-selective reagent 4-(2-pyridylazo)resorcinol (PAR), 371 (1998) 227

The use of voltammetry for sorption studies of heavy metals on mineral surfaces in presence of the siderophore desferrioxamine B, 392 (1999) 159

# Zn(egta)

Polynuclear complexes of the edta analogues, 394 (1999) 345

#### Zn(II

Square-wave anodic stripping voltammetry of Zn(II) as a method for probing instabilities at a glassy carbon mercury film microelectrode, 357 (1997) 33

## Zone sampling

Automatic multicommutation flow system for wide range spectrophotometric calcium determination, 366 (1998) 45

#### Zone trapping

Multicommutation in flow analysis exploiting a multizone trapping approach: spectrophotometric determination of boron in plants, 374 (1998) 53

# Zucchini (Cucurbita pepo)

Zucchini crude extract-palladium-modified carbon paste electrode for the determination of hydroquinone in photographic developers, 398 (1999) 145

## Zwitterionic stationary phase

Direct determination of bromide ions in sea water by ion chromatography using water as the mobile phase, 322 (1996) 43

Evaluation of sulfobetaine-type zwitterionic stationary phases for ion chromatographic separation using water as a mobile phase, 349 (1997) 231

Characteristic conversion of ion pairs among anions and cations for determination of anions in electrostatic ion chromatography using water as a mobile phase, 379 (1999) 23

#### Zymography

Application of electrophoresis and related methods, such as western blotting and zymography to the study of some proteins and enzymes, 383 (1999) 119

